

ATTORNEY/AGENT INFORMATION:
 NAME: Borun, Michael F.
 REGISTRATION NUMBER: 25,447
 REFERENCE/DOCKET NUMBER: 27129/33199
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 312/474-6300
 TELEFAX: 312/474-0448
 TELEX: 25-3856
 INFORMATION FOR SEQ ID NO: 150:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 13 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 FEATURE:
 NAME/KEY: misc:feature
 OTHER INFORMATION: "XMP.284"
 FEATURE:
 NAME/KEY: Modified-site
 LOCATION: C-Terminus
 OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated."
 SEQUENCE DESCRIPTION: SEQ ID NO: 150:

Query Match 100.0%; Score 57; DB 9; Length 13;
 Best Local Similarity 100.0%; Pred. No. 0.0027;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHHK 10
 Db 4 KWLQLFHHK 13

RESULT 19

US-09-881-490-117
 Sequence 117, Application US/09881490
 Patent No. US2002007298A1
 GENERAL INFORMATION:
 APPLICANT: Little II, Roger G.
 Lim, Edward
 Fadem, Mitchell B.
 TITLE OF INVENTION: Anti-Fungal Peptides
 NUMBER OF SEQUENCES: 211
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: McAndrews, Held & Malloy, Ltd.
 STREET: 500 West Madison Street, 34th Floor Drive
 CITY: Chicago
 STATE: Illinois
 COUNTRY: United States of America
 ZIP: 60661
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/881,490
 FILING DATE: 14-Jun-2001
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 09/119,856
 FILING DATE: <Unknown>
 APPLICATION NUMBER: 08/372,105
 FILING DATE: 13-JAN-95
 APPLICATION NUMBER: 08/305,473
 FILING DATE: 15-SEP-94
 APPLICATION NUMBER: 08/273,540
 FILING DATE: 11-JUL-94
 APPLICATION NUMBER: 08/209,762
 FILING DATE: 11-MAR-94
 APPLICATION NUMBER: 08/183,222
 FILING DATE: 14-JAN-94
 APPLICATION NUMBER: 08/093,202

FILING DATE: 15-JUL-93
 APPLICATION NUMBER: 08/030,644
 FILING DATE: 12-MAR-93
 ATTORNEY/AGENT INFORMATION:
 NAME: McNicholas, Janet K.
 REGISTRATION NUMBER: 32,918
 REFERENCE/DOCKET NUMBER: 100-238/1021US01
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 312/707-8889
 TELEFAX: 312/707-9155
 TELEX: 650 388-1248
 INFORMATION FOR SEQ ID NO: 117:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 13 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 FEATURE:
 NAME/KEY: misc:feature
 OTHER INFORMATION: "XMP.284"
 FEATURE:
 NAME/KEY: Modified-site
 LOCATION: C-Terminus
 OTHER INFORMATION: /label= Amidation
 /note= "The C-Terminus is Amidated."
 SEQUENCE DESCRIPTION: SEQ ID NO: 117:

US-09-881-490-117

Query Match 100.0%; Score 57; DB 9; Length 13;
 Best Local Similarity 100.0%; Pred. No. 0.0027;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHHK 10
 Db 4 KWLQLFHHK 13

RESULT 20

US-09-765-527-86
 Sequence 86, Application US/09765527
 Patent No. US2002000638A1
 GENERAL INFORMATION:
 APPLICANT: Better, Marc D.
 TITLE OF INVENTION: Methods for Recombinant Microbial Production of Fusion Proteins and BPI-Derived Peptides
 NUMBER OF SEQUENCES: 265
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Marshail, O'Toole, Gerstein, Murray & Borun
 STREET: 6300 Sears Tower, 233 South Wacker Drive
 CITY: Chicago
 STATE: Illinois
 COUNTRY: United States of America
 ZIP: 60606-6402
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/765,527
 FILING DATE: 18-Jan-2001
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/621,803
 FILING DATE: <Unknown>
 ATTORNEY/AGENT INFORMATION:
 NAME: Borun, Michael F.
 REGISTRATION NUMBER: 25,447
 REFERENCE/DOCKET NUMBER: 27129/33199
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 312/474-6300
 TELEFAX: 312/474-0448
 TELEX: 25-3856
 INFORMATION FOR SEQ ID NO: 86:

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; SEQUENCE CHARACTERISTICS:
; LENGTH: 14 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: "XMP.97"
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: C-terminus
; OTHER INFORMATION: /label= Amidation
; /note= "The C-terminus is Amidated."
; SEQUENCE DESCRIPTION: SEQ ID NO: 86:
US-09-765-527-86

Query Match 100.0%; Score 57; DB 9; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.0029;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 KWLQLFHKK 10
DB 5 KWLQLFHKK 14

RESULT 21
US-09-881-490-31
; Sequence 31, Application US/09881490
; Patent No. US2002007298A1
; GENERAL INFORMATION:
; APPLICANT: Little II, Roger G.
; Lim, Edward
; Fadem, Mitchell B.
; TITLE OF INVENTION: Anti-Fungal Peptides
; NUMBER OF SEQUENCES: 211
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McAndrews, Held & Malloy, Ltd.
; STREET: 500 West Madison Street, 34th Floor/Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60661
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent's Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/881,490
; FILING DATE: 14-JUN-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/119,858
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 06/372,105
; FILING DATE: 13-CAN-95
; APPLICATION NUMBER: 08/306,473
; FILING DATE: 15-SEP-94
; APPLICATION NUMBER: 08/273,540
; FILING DATE: 11-JUL-94
; APPLICATION NUMBER: 08/209,762
; FILING DATE: 11-MAR-94
; APPLICATION NUMBER: 08/183,222
; FILING DATE: 14-JAN-94
; APPLICATION NUMBER: 08/093,202
; FILING DATE: 15-JUL-93
; APPLICATION NUMBER: 08/030,644
; FILING DATE: 12-MAR-93
; ATTORNEY/AGENT INFORMATION:
; NAME: McNicholas, Janet M.
; REGISTRATION NUMBER: 32,918
; REFERENCE/DOCKET NUMBER: 100-238/11021US01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/707-8889
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; TELEFAX: 312/707-9155
; TELEX: 650 388-1248
; INFORMATION FOR SEQ ID NO: 31:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 14 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: "XMP.97"
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: C-terminus
; OTHER INFORMATION: /label= Amidation
; /note= "The C-terminus is Amidated"
; SEQUENCE DESCRIPTION: SEQ ID NO: 31:
US-09-881-490-31

Query Match 100.0%; Score 57; DB 9; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.0029;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 KWLQLFHKK 10
DB 5 KWLQLFHKK 14

Search completed: October 1, 2003, 09:51:11
Job time : 578 secs
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Genome version 5.1.6
Copyright (c) 1993 - 2003 Computer Ltd.

OM protein - protein search, using sw model

Run on: October 1, 2003, 09:06:03 : Search time 15 seconds
(without alignments)
64.112 Million cell updates/sec

Title: US-09-881-490-126

Perfect score: 57

Sequence: 1 KWLQLFHKK 10

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283308 seqs, 96168682 residues

Total number of hits satisfying chosen parameters: 283308

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : P15_76:*

1: pir1:*

2: pir2:*

3: pir3:*

4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARY

Result No.	Score	Query Match	Length	DB ID	Description
1	52	91.2	250	4 S43383	bactericidal/permeability-increasing protein
2	52	91.2	487	2 A30909	bactericidal/permeability-increasing protein precursor - human
3	43	75.4	146	2 R8721	transcription factor
4	42	73.7	221	2 G8598	mutant's bank spor
5	41	71.9	482	2 S10180	bactericidal/permeability-increasing protein
6	41	71.9	1483	2 S42839	transcription factor
7	40	70.2	290	2 C4547	constitutively active protein
8	40	70.2	324	2 S5884	transcription factor
9	37	64.9	512	2 S21171	activin receptor type 1
10	37	64.9	513	2 J01485	activin receptor type 1
11	37	64.9	513	2 S23089	activin receptor type 1
12	37	64.9	513	2 A39595	activin receptor type 1
13	37	64.9	513	2 A49193	activin receptor type 1
14	37	64.9	513	2 S27258	activin receptor type 1
15	37	64.9	513	2 I45650	activin receptor type 1
16	37	64.9	514	2 J01317	activin receptor type 1
17	37	64.9	993	2 C31915	antibiotic resistance protein
18	36.5	64.0	684	2 T2147	NADH dehydrogenase
19	36	63.2	152	2 B38196	probable RNA-directed
20	36	63.2	230	2 D70658	hypothetical protein
21	36	63.2	246	2 H85955	probable transposase
22	36	63.2	296	2 E91110	probable transposase
23	36	63.2	342	2 T34338	hypothetical protein
24	36	63.2	473	2 S41709	mitosis-specific cyclin
25	36	63.2	477	2 A35843	lipopolysaccharide
26	36	63.2	481	2 A54136	lipopolysaccharide
27	36	63.2	481	2 I56246	lipopolysaccharide
28	36	63.2	517	2 S26857	isocitrate lyase
29	36	63.2	555	2 S39953	isocitrate lyase

ALIGNMENTS

RESULT 1

S43383

Bactericidal/permeability-increasing protein - synthetic

C:Species: Synthetic

A:Note: Homo sapiens (man) gene engineered and expressed in Escherichia coli

C:Date: 20-Oct-1994 #sequence_revision 15-Feb-1996 #text_change 15-Feb-1996

C:Accession: S43383

R:01, S.Y.: Li, Y.; O'Connor, C.D.

Biochem. J. 298, 711-718, 1994

A:Title: The region around residue 115 of human bactericidal/permeability-increasing

of a gene coding for the active domain and characterization of recombinant proteins.

A:Reference number: S43383

A:Accession: S43383

A:Molecule type: DNA

A:Residues: 1-250 <QIS>

Query Match 91.2% Score 52: DB 4: Length 250;

Best Local Similarity 100.0% Pred. No. 0.03;

Matches 9: Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 WLIQLFHKK 10

DL 154 WLIQLFHKK 162

RESULT 2

A30909

bactericidal/permeability-increasing protein precursor - human

N:Alternate names: 55K bactericidal protein

C:Species: Homo sapiens (man)

C:Date: 18-Apr-1989 #sequence_revision 18-Apr-1989 #text_change 20-Aug-1999

C:Accession: A33850; B54136; A29464; A43600; A49716; A30909

R:Gray, P.W.; Fagg, G.; Jeong, S.R.; Guma, R.J.; Weiss, J.; Ooi, C.E.; Elsbach, P.

J. Biol. Chem. 264, 9505-9509, 1989

A:Title: Cloning of the cDNA of a human neutrophil bactericidal protein. Structural

A:Reference number: A33850; MUID:89255455; PMID:2722846

A:Accession: A33850

A:Molecule type: mRNA

A:Residues: 1-487 <GRA>

A:Cross-references: GB:J04739; NID:q179528; PID:AAA51841.1; PID:q179529

R:Wilde, C.G.; Seilhamer, J.J.; McGrogan, M.; Ashton, N.; Snable, J.L.; Lane, J.C.; I

J. Biol. Chem. 269, 17411-17416, 1994

A:Title: Bactericidal/permeability-increasing protein and lipopolysaccharide (LPS)-bi

A:Reference number: A54136; MUID:94292492; PMID:7517398

A:Accession: B54136

A>Status: nucleic acid sequence not shown; not compared with conceptual translation

A:Molecule type: mRNA

A:Residues: 1-374, 'L', 376-487 <WIL>

A:Experimental source: HL-60 cells

A:Note: sequence extracted from NCBI backbone (NCBI:149855)

R:Ooi, C.E.; Weiss, J.; Elsbach, P.; Frangione, B.; Mannion, B.

J. Biol. Chem. 262, 14891-14894, 1987

A:Title: A 25-kDa amino-terminal fragment carries all the antibacterial activities of the
A:Reference number: A29464; MUID:88033057; PMID:3667613

A:Accession: A29464
A:Molecule type: protein

A:Residues: 32-51 <OO>
A:Experimental source: neutrophils
R:Wasilik, K.R.; Skubitz, K.M.; Gray, B.H.
Infect. Immun. 59, 4193-4200, 1991

A:Title: Comparison of granule proteins from human polymorphonuclear leukocytes which are
A:Reference number: A43600; MUID:92040097; PMID:1937776

A:Accession: A43600

A:Molecule type: protein
A:Residues: 32-52, 78 <SWAS>

R:Little, R.G.; Kelner, D.N.; Lim, E.; Burke, D.J.; Conlon, P.J.
J. Biol. Chem. 269, 1865-1872, 1994

A:Title: Functional domains of recombinant bactericidal/permeability increasing protein
A:Reference number: A49716; MUID:94124531; PMID:8294435

A:Accession: A49716

A:Molecule type: Protein

A:Residues: 32-130:132-141;143-165;202-215;217-225 <LTT>

A:Comment: The bactericidal/permeability-increasing protein (BPI) is a 69 kD membrane protein which is specific for gram-negative bacteria. BPI has a high affinity for lipopolysaccharide between BPI and an LPS-binding protein from liver and cholesterol ester transfer protein
C:Genetics: GDB:BPI

A:Cross-references: GDB:131572; OMIM:109195

A:Map position: 20q11.23-20q12

C:Superfamily: lipopolysaccharide-binding protein

C:Keywords: antibacterial; cytotoxic; glycoprotein; heparin binding; neutrophil

F:1-31/Domain: signal sequence *status predicted <SIG>

F:32-487/Product: bactericidal permeability-increasing protein *status predicted <MAI>

F:32-51/Region: bactericidal *status predicted

F:380/Binding site: carbohydrate (Asn) (covalent) *status predicted

Query Match 91.2%; Score 52; DB 2; Length 487;

Best Local Similarity 100.0%; Pred. No. 0.958;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 WLIIQLFHKK 10

DB 184 WLIIQLFHKK 192

RESULT 3

B86721

A:Title: transduction regulator [imported] - Lactococcus lactis subsp. lactis (strain 111403)

C:Species: Lactococcus lactis subsp. lactis

C:Date: 23-Mar-2001 *sequence_revision 23-Mar-2001 *text_change 03-Aug-2001

C:Accession: B86721

R:Boletín, A.; Wincker, P.; Mauger, S.; Tailon, O.; Malarme, K.; Weissenbach, J.; Ehrlich

Genome Res. 11, 731-753, 2001

A:Title: The complete genome sequence of the lactic acid bacterium Lactococcus lactis s8

A:Reference number: A86625; MUID:21235186; PMID:11337471

A:Accession: B86721

A:Status: preliminary

A:Molecule type: DNA

A:Residues: 1-146 <STO>

A:Cross-references: GB:AF005176; PID:q2723684; PID:AAK0468.1; GSPDB:GNC0146

A:Experimental source: strain 111403

C:Genetics: rnaG

Query Match 75.4%; Score 43; DB 2; Length 146;

Best Local Similarity 87.5%; Pred. No. 0.96;

Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLIIQLFH 8

DB 10 EWLIIQLFH 17

RESULT 4

G83998

A:Title: mutants block sporulation after engulfment spoIIAG [imported] - Bacillus halodurans

C:Species: Bacillus halodurans

C:Date: 01-Dec-2000 *sequence_revision 01-Dec-2000 *text_change 15-Jun-2001

C:Accession: G83998

R:Takami, H.; Nakasone, K.; Takaki, Y.; Maeno, G.; Sasaki, R.; Masui, N.; Fujii, F.; H

Nucleic Acids Res. 28, 4317-4331, 2000

A:Title: Complete genome sequence of the alkaliphilic bacterium Bacillus halodurans a

A:Reference number: A83650; MUID:20512582; PMID:11058132

A:Accession: G83998

A:Status: preliminary

A:Molecule type: DNA

A:Residues: 1-1483 <THO>

A:Cross-references: EMBL:Z30317; MUID:9457454; PID:9457457

C:Genetics:

C:Introns: 91/3; 127/3; 161/1; 282/3; 345/2; 474/3; 515/2; 538/1; 555/3; 782/1; 979/1

C:Superfamily: Caenorhabditis elegans T16G12.5 protein

Query Match 71.9%; Score 41; DB 2; Length 1483;

Best Local Similarity 77.8%; Pred. No. 20;

Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 WLIIQLFHKK 10

DB 179 WLIIQLFHKK 187

RESULT 6

S42839

T16G12.5 protein - Caenorhabditis elegans

C:Species: Caenorhabditis elegans

C:Date: 20-Feb-1995 *sequence_revision 20-Feb-1995 *text_change 24-Nov-1999

C:Accession: S42839

R:Thomas, K.

submitted to the EMBL Data Library, February 1994

A:Reference number: S42837

A:Accession: S42839

A:Status: preliminary

A:Molecule type: DNA

A:Residues: 1-1483 <THO>

A:Cross-references: EMBL:Z30317; MUID:9457454; PID:9457457

C:Genetics:

C:Introns: 91/3; 127/3; 161/1; 282/3; 345/2; 474/3; 515/2; 538/1; 555/3; 782/1; 979/1

C:Superfamily: Caenorhabditis elegans T16G12.5 protein

Query Match 71.9%; Score 41; DB 2; Length 1483;

Best Local Similarity 77.8%; Pred. No. 20;

Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 WLIIQLFHKK 10

DB 179 WLIIQLFHKK 187

RESULT 6

S42839

T16G12.5 protein - Caenorhabditis elegans

C:Species: Caenorhabditis elegans

C:Date: 20-Feb-1995 *sequence_revision 20-Feb-1995 *text_change 24-Nov-1999

C:Accession: S42839

R:Thomas, K.

submitted to the EMBL Data Library, February 1994

A:Reference number: S42837

A:Accession: S42839

A:Status: preliminary

A:Molecule type: DNA

A:Residues: 1-1483 <THO>

A:Cross-references: EMBL:Z30317; MUID:9457454; PID:9457457

C:Genetics:

C:Introns: 91/3; 127/3; 161/1; 282/3; 345/2; 474/3; 515/2; 538/1; 555/3; 782/1; 979/1

C:Superfamily: Caenorhabditis elegans T16G12.5 protein

Query Match 71.9%; Score 41; DB 2; Length 1483;

Best Local Similarity 77.8%; Pred. No. 20;

Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 WLIIQLFHKK 10

DB 179 WLIIQLFHKK 187

RESULT 6

S42839

T16G12.5 protein - Caenorhabditis elegans

C:Species: Caenorhabditis elegans

C:Date: 20-Feb-1995 *sequence_revision 20-Feb-1995 *text_change 24-Nov-1999

C:Accession: S42839

R:Thomas, K.

submitted to the EMBL Data Library, February 1994

A:Reference number: S42837

A:Accession: S42839

A:Status: preliminary

A:Molecule type: DNA

A:Residues: 1-1483 <THO>

A:Cross-references: EMBL:Z30317; MUID:9457454; PID:9457457

C:Genetics:

C:Introns: 91/3; 127/3; 161/1; 282/3; 345/2; 474/3; 515/2; 538/1; 555/3; 782/1; 979/1

C:Superfamily: Caenorhabditis elegans T16G12.5 protein

Query Match 71.9%; Score 41; DB 2; Length 1483;

Best Local Similarity 77.8%; Pred. No. 20;

Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 WLIIQLFHKK 10

DB 179 WLIIQLFHKK 187

RESULT 6

S42839

T16G12.5 protein - Caenorhabditis elegans

C:Species: Caenorhabditis elegans

C:Date: 20-Feb-1995 *sequence_revision 20-Feb-1995 *text_change 24-Nov-1999

C:Accession: S42839

R:Thomas, K.

submitted to the EMBL Data Library, February 1994

A:Reference number: S42837

A:Accession: S42839

A:Status: preliminary

A:Molecule type: DNA

A:Residues: 1-1483 <THO>

A:Cross-references: EMBL:Z30317; MUID:9457454; PID:9457457

C:Genetics:

C:Introns: 91/3; 127/3; 161/1; 282/3; 345/2; 474/3; 515/2; 538/1; 555/3; 782/1; 979/1

C:Superfamily: Caenorhabditis elegans T16G12.5 protein

Query Match 71.9%; Score 41; DB 2; Length 1483;

Best Local Similarity 77.8%; Pred. No. 20;

Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 WLIIQLFHKK 10

DB 179 WLIIQLFHKK 187

RESULT 6

S42839

T16G12.5 protein - Caenorhabditis elegans

C:Species: Caenorhabditis elegans

C:Date: 20-Feb-1995 *sequence_revision 20-Feb-1995 *text_change 24-Nov-1999

C:Accession: S42839

R:Thomas, K.

submitted to the EMBL Data Library, February 1994

A:Reference number: S42837

A:Accession: S42839

A:Status: preliminary

A:Molecule type: DNA

A:Residues: 1-1483 <THO>

A:Cross-references: EMBL:Z30317; MUID:9457454; PID:9457457

C:Genetics:

C:Introns: 91/3; 127/3; 161/1; 282/3; 345/2; 474/3; 515/2; 538/1; 555/3; 782/1; 979/1

C:Superfamily: Caenorhabditis elegans T16G12.5 protein

Query Match 71.9%; Score 41; DB 2; Length 1483;

Best Local Similarity 77.8%; Pred. No. 20;

Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 WLIIQLFHKK 10

DB 179 WLIIQLFHKK 187

RESULT 6

S42839

T16G12.5 protein - Caenorhabditis elegans

C:Species: Caenorhabditis elegans

C:Date: 20-Feb-1995 *sequence_revision 20-Feb-1995 *text_change 24-Nov-1999

C:Accession: S42839

R:Thomas, K.

submitted to the EMBL Data Library, February 1994

A:Reference number: S42837

A:Accession: S42839

A:Status: preliminary

A:Molecule type: DNA

A:Residues: 1-1483 <THO>

A:Cross-references: EMBL:Z30317; MUID:9457454; PID:9457457

C:Genetics:

C:Introns: 91/3; 127/3; 161/1; 282/3; 345/2; 474/3; 515/2; 538/1; 555/3; 782/1; 979/1

C:Superfamily: Caenorhabditis elegans T16G12.5 protein

Query Match 71.9%; Score 41; DB 2; Length 1483;

Best Local Similarity 77.8%; Pred. No. 20;

Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 WLIIQLFHKK 10

DB 179 WLIIQLFHKK 187

RESULT 6

S42839

T16G12.5 protein - Caenorhabditis elegans

C:Species: Caenorhabditis elegans

C:Date: 20-Feb-1995 *sequence_revision 20-Feb-1995 *text_change 24-Nov-1999

C:Accession: S42839

R:Thomas, K.

submitted to the EMBL Data Library, February 1994

A:Reference number: S42837

A:Accession: S42839

A:Status: preliminary

A:Molecule type: DNA

A:Residues: 1-1483 <THO>

A:Cross-references: EMBL:Z30317; MUID:9457454; PID:9457457

C:Genetics:

C:Introns: 91/3; 1

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Query Match          70.2%; Score 40; DB 1; Length 3224;
Best Local Similarity 87.5%; Pred. No. 68;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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      III I I I
Db      455 KWLKQLFH 462

FEATURE 9
S21171
activin receptor STK9 - African clawed frog
C:Species: Xenopus laevis (African clawed frog)
C:Date: 22-Nov-1993 #sequence_revision 10-Nov-1995 #text_change 28-Feb-1997
C:Accession: S21171
P:Nishimatsu, S.; Oda, S.; Murakami, K.; Ueno, N.
FEBS Lett. 303, 81-84, 1992
A:Title: Multiple genes for Xenopus activin receptor expressed during early embryoge
A:Reference number: S21171; MUID:92275088; PMID:137302
A:Accession: S21171
A:Molecule type: mRNA
A:Residues: 1-512 <NIS>
C:Superfamily: activin receptor II; protein kinase homology
C:Keywords: AIP
F:189-485/Domain: protein kinase homology <KIN>

Query Match          64.9%; Score 37; DB 2; Length 512;
Best Local Similarity 66.7%; Pred. No. 40;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      2 WLQLQFLHKK 10
      III I I I
Db      263 WLTPPEK 271

RESULT 10
JQ1486
activin receptor II precursor - human
N:Contains: serine/threonine-specific protein kinase (EC 2.7.1.-)
C:Species: Homo sapiens (man)
C:Date: 17-Jul-1992 #sequence_revision 19-Oct-1995 #text_change 21-Jul-2000
C:Accession: JQ1486; S18908; S22345
P:Donaldson, C.J.; Mathews, L.S.; Vale, W.W.
Biochem. Biophys. Res. Commun. 184, 310-316, 1992
A:Title: Molecular cloning and binding properties of the human type II activin recept
A:Reference number: JQ1486; MUID:92231944; PMID:1314589
A:Accession: JQ1486
A:Molecule type: mRNA
A:Residues: 1-513 <DON>
A:Cross-references: GB:M93415; NID:q176049; PIDN:AAA35504.1; PID:g178050
A:Experimental source: testis
P:Goiser, A.G.
Submitted to the EMBL Data Library, December 1991
A:Reference number: S18908
A:Accession: S18908
A:Molecule type: mRNA
A:Residues: 1-513 <GE1>
A:Cross-references: EMBL:X62381; NID:q28347; PIDN:CAA4245.1; PID:g28348
P:Matzuk, M.M.; Bradley, A.
Biochim. Biophys. Acta 1130, 105-108, 1992
A:Title: Cloning of the human activin receptor cDNA reveals high evolutionary conserv
A:Reference number: S22345; MUID:92182002; PMID:1311955
A:Accession: S22345
A:Molecule type: mRNA
A:Residues: 1-513 <MAT2>
A:Cross-references: EMBL:X63128; NID:g3928172; PIDN:CAA44839.1; PID:g28350
C:Comment: This protein binds activin A.
C:Genetics:
A:Gene: GDB:ACVR2
A:Cross-references: GDB:132411
A:Map position: 11q13-11q13

```

C:Superfamily: activin receptor II; protein kinase homology
C:Keywords: ATP; glycoprotein; phosphotransferase; receptor; serine/threonine-specific p
F:1-19/Domain: signal sequence; status predicted <SIG>
F:20-513/Product: activin receptor II; status predicted <MAT>
F:20-138/Domain: extracellular; status predicted <EXT>
F:139-160/Domain: transmembrane; status predicted <TM1>
F:161-513/Domain: intracellular; status predicted <INT>
F:190-486/Domain: protein kinase homology <KIN>
F:199-206/Region: protein kinase ATP-binding motif
F:43-66/Binding site: carbohydrate (Asn) (covalent) #status predicted
F:219/Active site: Lys #status predicted

Query Match 64.9%; Score 37; DB 1; Length 513;
Best Local Similarity 66.7%; Pred. No. 40;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 2 WLITAFHKK 10
||| |||
Db 264 WLITAFHKK 272

RESULT 11
S23089
activin receptor type IIA - chicken
C:Species: Gallus gallus (chicken)
C:Date: 22-Nov-1993 #sequence_revision 10-Nov-1995 #text_change 20-Jan-2000
C:Accession: S23089
R:Ohuchi, H.; Nohji, S.; Koyama, E.; Miyokai, F.; Nishikawa, K.; Nohno, T.; Tashiro, K.; S
FBS Lett. 303, 185-189, 1992
A:Title: Expression pattern of the activin receptor type IIA gene during differentiation
A:Reference number: S23089; MUID:92299088; PMID:1312847
A:Accession: S23089
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-513 <OHU>
A:Cross-references: GB:D31399; NID:q505347; PIDN:BA06697.1; PID:q55548
C:Superfamily: activin receptor II; protein kinase homology
C:Keywords: ATP
F:190-486/Domain: protein kinase homology <KIN>

Query Match 64.9%; Score 37; DB 2; Length 513;
Best Local Similarity 66.7%; Pred. No. 40;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 2 WLITAFHKK 10
||| |||
Db 264 WLITAFHKK 272

RESULT 12
A39896
activin receptor precursor - mouse
C:Species: Mus musculus (house mouse)
C:Date: 24-Jan-1992 #sequence_revision 24-Jan-1992 #text_change 18-Jun-1999
C:Accession: A39896
R:Mathews, L.S.; Vale, W.W.
Cell 65, 973-982, 1991
A:Title: Expression cloning of an activin receptor, a predicted transmembrane serine kin
A:Reference number: A39896; MUID:91256317; PMID:1646080
A:Accession: A39896
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-513 <MAT>
A:Cross-references: GB:M65287; NID:q191663; PIDN:AAJ371.1; PID:q191664
C:Superfamily: activin receptor II; protein kinase homology
C:Keywords: ATP; receptor; serine/threonine-specific protein kinase; transmembrane prot
F:190-486/Domain: protein kinase homology <KIN>

Query Match 64.9%; Score 37; DB 2; Length 513;
Best Local Similarity 66.7%; Pred. No. 40;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 2 WLITAFHKK 10
||| |||
Db 264 WLITAFHKK 272

Db 264 WLITAFHKK 272
||| |||
RESULT 13
A49193
type II activin receptor ActrII - rat (fragment)
C:Species: Rattus norvegicus (Norway rat)
C:Date: 19-Dec-1993 #sequence_revision 18-Nov-1994 #text_change 21-May-1997
C:Accession: A49193
R:Yang, Z.M.; Madigan, M.B.; Chen, C.L.
Endocrinology 132, 2593-2600, 1993
A:Title: Expression of type II activin receptor genes in the male and female reproduc
A:Reference number: A49193; MUID:93279247; PMID:7916581
A:Accession: A49193
A:Status: preliminary
A:Molecule type: nucleic acid
A:Residues: 1-513 <FEN>
A:Note: sequence extracted from NCBI backbone (NCBI:133008, NCBI:133009)
C:Superfamily: activin receptor II; protein kinase homology
C:Keywords: ATP; receptor
F:190-486/Domain: protein kinase homology <KIN>

Query Match 64.9%; Score 37; DB 2; Length 513;
Best Local Similarity 66.7%; Pred. No. 40;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 2 WLITAFHKK 10
||| |||
Db 264 WLITAFHKK 272

RESULT 14
S27258
activin receptor type II - rat
C:Species: Rattus norvegicus (Norway rat)
C:Date: 22-Nov-1993 #sequence_revision 10-Nov-1995 #text_change 18-Jun-1999
C:Accession: S27258
R:Shinozaki, H.; Ito, I.; Hasegawa, Y.; Nakamura, K.; Igarashi, S.; Nakamura, M.; Mi
FBS Lett. 312, 53-56, 1992
A:Title: Cloning and sequencing of a rat type II activin receptor.
A:Reference number: S27258; MUID:93050162; PMID:1385222
A:Accession: S27258
A:Molecule type: mRNA
A:Residues: 1-513 <SHI>
A:Cross-references: GB:S48190; NID:q258941; PIDN:AAB23958.1; PID:q258942
C:Superfamily: activin receptor II; protein kinase homology
C:Keywords: ATP; receptor
F:190-486/Domain: protein kinase homology <KIN>

Query Match 64.9%; Score 37; DB 2; Length 513;
Best Local Similarity 66.7%; Pred. No. 40;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 2 WLITAFHKK 10
||| |||
Db 264 WLITAFHKK 272

RESULT 15
I45850
activin receptor type II - bovine
C:Species: Bos primigenius taurus (cattle)
C:Date: 15-Oct-1996 #sequence_revision 15-Oct-1996 #text_change 18-Jun-1999
C:Accession: I45850
R:Rithler, J.F.; Houde, A.; Lussier, J.G.; Silversides, D.W.
Mol. Cell. Endocrinol. 106, 1-8, 1994
A:Title: Bovine activin receptor type II cDNA: cloning and tissue expression.
A:Reference number: I45850; MUID:95203477; PMID:7534730
A:Accession: I45850
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-513 <ETH>

A:Cross-references: GB:L21717; NID:9393113; PIDN:AAA74597.1; PID:5353114

C:Genetics:

A:Gene: actr11

C:Superfamily: activin receptor II; protein kinase homology

C:Keywords: ATP; receptor

F:190-486/Domain: protein kinase homology <KIN>

Query Match

Best Local Similarity 64.98; Score 37; EH 2; Length 513;

Matches 6; Conservative 1; Mismatches 2; Indels 1; Gaps 0.

Qy

2 WLQLFHKK 20

|||||

Db 264 WLITAFHK 272

Search completed: October 1, 2003, 09:07:33

Job time : 18 secs

GenCore version: 5.1.6
Copyright (c) 1993 - 2003 Computer Mod.

OM protein - protein search, using sw modif

Run on: October 1, 2003, 09:05:03 ; Search time 1: Seconds
(without alignments)
42.752 Million cell updates/sec

Title: US-09-881-490-126
Sequence: 1 KWLQLPHKK 10

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 127863 seqs. 47026705 residues

Total number of hits satisfying chosen parameters: 127863

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : SwissProt_41:*

pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	52	91.2	483	1	BPI_HUMAN	P17213 homo sapien
2	41	71.9	482	1	BPI_BOVIN	P17453 bos taurus
3	40	70.2	3224	1	RBP2_HUMAN	P49792 homo sapien
4	37	64.9	513	1	AVR2_BOVIN	Q28043 bos taurus
5	37	64.9	513	1	AVR2_HUMAN	P27937 homo sapien
6	37	64.9	513	1	AVR2_MOUSE	P27938 mus musculu
7	37	64.9	513	1	AVR2_RAT	P34444 rattus norv
8	37	64.9	513	1	AVR2_SHEEP	Q28560 ovis aries
9	37	64.9	514	1	AVR2_XENLA	P27839 xenopus lae
10	37	64.9	924	1	SECS_HUMAN	Q98KPI homo sapien
11	37	64.9	993	1	KSSH_LACLA	P23103 lactococcus
12	36	63.2	365	1	VSGP_EBOIC	Q55821 ebola virus
13	36	63.2	473	1	CG21_ANTMA	P34800 antirrhinum
14	36	63.2	481	1	LBP_HUMAN	P18424 homo sapien
15	36	63.2	481	1	LBP_MOUSE	Q57805 mus musculu
16	36	63.2	481	1	LBP_RAT	Q63823 rattus norv
17	36	63.2	537	1	ACEA_EMEN	P28298 escherichia
18	36	63.2	541	1	ACEA_YARLI	P41555 yarrowia li
19	36	63.2	676	1	VGP_EBOIC	Q66810 ebola virus
20	36	63.2	1579	1	SSK2_YEAST	P35599 saccharomyc
21	36	63.2	1693	1	POLN_HEVBY	P23324 hepatitis e
22	36	63.2	1693	1	POLN_HEVPA	Q04610 hepatitis e
23	36	63.2	1693	1	POLN_HEVPA	P34424 hepatitis e
24	36	63.2	3898	1	POLG_HCVB	P19712 hog cholera
25	36	63.2	3898	1	POLG_HCVB	P19712 hog cholera
26	35.5	62.3	505	1	SYE_CHLPN	Q97725 calamydia p
27	35	61.4	240	1	RCX2_PSEAF	G68636 pseudomonas
28	35	61.4	296	1	YDBH_ECOLI	P31129 escherichia
29	35	61.4	355	1	CKR1_HUMAN	P32246 homo sapien
30	35	61.4	355	1	CKR1_HUMAN	P56482 macaca muli
31	35	61.4	382	1	AVR2_RAT	P38445 rattus norv
32	35	61.4	428	1	DCTA_ECO57	G8X5M2 escherichia
33	35	61.4	428	1	DCTA_ECOLI	P37312 escherichia

RESULT 1
BPI_HUMAN
ID BPI_HUMAN STANDARD: PRI: 483 AA.
AC P17213; Q9BYZ9; Q9H112; Q9H1M6; Q9H203; Q9UC65;
DI 01-AUG-1990 (Rel. 15, Created)
DI 01-NOV-1997 (Rel. 35, Last sequence update)
DI 15-SEP-2003 (Rel. 42, Last annotation update)
DE Bactericidal permeability-increasing protein precursor (BPI) (CAP 57).
GN BPI.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
CC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID:9606;
RN [1]
RP SEQUENCE FROM N.A., AND SEQUENCE OF 28-64.
RX MEDLINE=89255455; PubMed=2722846;
RA Gray P.W., Flagg G., Leong S.R., Gumina R.J., Weiss J., Ooi C.E.,
Elasbach P.;
RT Cloning of the cDNA of a human neutrophil bactericidal protein.
RT Structural and functional correlations*;
RI J. Biol. Chem. 264:9505-9509(1989).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=94292492; PubMed=7517398;
RA Wilco C.G., Sellhammer J.J., McGrogan M., Ashton N., Shadle J.L.,
Lane J.C., Leong S.R., Thornton M.B., Miller K.L., Scott R.W.;
RT Bactericidal/permeability-increasing protein and lipopolysaccharide
(LPS)-binding protein. LPS binding properties and effects on LPS-
mediated cell activation*;
RI J. Biol. Chem. 269:17411-17416(1994).
RN [3]
RP SEQUENCE FROM N.A.
RX Xu G., Wang H.;
RT Cloning of cDNA of human bactericidal/permeability-increasing
protein*;
RI Submitted (NOV-2000) to the EMBL/GenBank/DBJ databases.
RN [4]
RP SEQUENCE FROM N.A.
RX MEDLINE=21638749; PubMed=11780052;
RA Deloukas P., Matthews L.H., Ashurst J., Burton J., Gilbert J.G.R.,
Jones M., Stavrides G., Almeida J.P., Babbage A.K., Baquley C.L.,
Bailey J., Barlow K.F., Bates K.N., Beard L.M., Beare L.M.,
Beasley O.P., Bird C.P., Blakey S.E., Bridgeman A.M., Brown A.J.,
Buck D., Harrill W.D., Butler A.P., Carder C., Carter N.P.,
Chapman J.C., Clamp M., Clark G., Clark L.N., Clark S.Y., Clee C.M.,
Clegg S., Cobley V.E., Collier R.E., Connor R.E., Corby N.R.,
Coulson A., Coville G.J., Deadman R., Dhani P.D., Dunn M.,
Ellington A.G., Frankland J.A., Fraser A., French L., Garner P.,
Graham D.V., Griffiths C., Griffiths M.N.D., Gwilliam R., Hall R.E.,
Hammond S., Harley J.F., Heath P.D., Ho S., Holden J.L., Howden P.J.,
Huckle E., Hunt A.R., Hunt S.E., Jekosch K., Johnson C.M., Johnson D.,
Kay M.P., Kimberley A.M., King A., Knights A., Laird G.K., Lawlor S.,
Lehvaestaho M.H., Leversha M.A., Lloyd C., Lloyd D.M., Lovell J.D.,
Marsh V.L., Martin S.J., McConachie L.J., McLeay K., McMurray A.A.,
Milne S.A., Mistry D., Moore M.J.F., Mullikin J.C., Nickerson T.,
Oliver K., Parker A., Patel R., Pearce T.A.V., Peck A.I.,

ALIGNMENTS

Q9ny15 homo sapien
P29363 pseudomonas
P27041 xenopus lae
Q95126 bos taurus
Q13705 homo sapien
P27040 mus musculu
P37173 homo sapien
P38438 rattus norv
Q62312 mus musculu
Q9d6t4 mus musculu
O13769 schizosacch
Q06706 saccharomyc

RA Philimore B.J.C.T., Prathalingam S.R., Plumb R.W., Kamsay B.,
 RA Rice C.M., Ross M.I., Scott C.E., Sehra H.K., Shonkeen R., Sims S.,
 RA Skuce D.D., Smith M.L., Soderlund C., Steward C.A., Sulston C.E.,
 RA Swann R.M., Sycamore N., Taylor R., Tee L., Thomas D.W., Torpe A.,
 RA Tracey A., Tromans A.C., Vaudin M., Wall M., Wallis J.M.,
 RA Whitehead S.L., Whittaker P., Willey D.L., Williams S.A.,
 RA Wilming L., Wray P.W., Hubbard T., Durbin R.M., Bentley D.R., Beck S.,
 RA Rogers J.;
 RT "The DNA sequence and comparative analysis of human chromosome 20";
 RL Nature 414:865-871(2001).
 RN [5]
 RP SEQUENCE OF 28-42.
 RX MEDLINE=88033057; PubMed=3567613;
 RA Ooi C.E., Weiss J., Elsbach P., Frangione B., Mancini R.;
 RT "A 25-kDa NH2-terminal fragment carries all the antibacterial
 RT activities of the human neutrophil 60-kDa
 RT bactericidal/permeability-increasing protein";
 RL J. Biol. Chem. 262:14891-14894(1987).
 RN [6]
 RP SEQUENCE OF 28-47.
 RX MEDLINE=89315847; PubMed=2501794;
 RA Gabay J.E., Scott R.W., Campanelli D., Griffith J., Wilde C.,
 RA Marra M.N., Soener M., Nathan C.F.;
 RT "Antibiotic proteins of human polymorphonuclear leukocytes";
 RL Proc. Natl. Acad. Sci. U.S.A. 86:5610-5614(1989).
 RN [7]
 RP X-RAY CRYSTALLOGRAPHY (2.4 ANGSTROMS).
 RX MEDLINE=97334442; PubMed=9188532;
 RA Beamer L.J., Carroll S.F., Eisenberg D.;
 RT "Crystal structure of human BPI and two bound phospholipids at 2.4-A
 RT resolution";
 RL Science 275:1861-1864(1997).
 CC -!- FUNCTION: THE CYTOTOXIC ACTION OF BPI IS LIMITED TO MANY SPECIES
 CC OF GRAM-NEGATIVE BACTERIA; THIS SPECIFICITY MAY BE EXPLAINED BY A
 CC STRONG AFFINITY OF THE VERY BASIC N-TERMINAL HALF FOR THE
 CC NEGATIVELY CHARGED LIPOLYSACCHARIDES THAT ARE UNIQUE TO THE
 CC GRAM-NEGATIVE BACTERIAL OUTER ENVELOPE.
 CC -!- SUBCELLULAR LOCATION: MEMBRANE-ASSOCIATED IN POLYMORPHONUCLEAR
 CC LEUKOCYTES (PMN) GRANULES.
 CC -!- TISSUE SPECIFICITY: RESTRICTED TO CELLS OF THE MYELOID SERIES.
 CC -!- DOMAIN: THE N-TERMINAL REGION MAY BE EXPOSED TO THE INTERIOR OF
 CC THE GRANULE, WHEREAS THE C-TERMINAL PORTION MAY BE EMBEDDED IN THE
 CC MEMBRANE. DURING PHAGOCYTOSIS AND DEGRANULATION, PROTEASES MAY BE
 CC RELEASED AND ACTIVATED AND CLEAVE BPI AT THE JUNCTION OF THE N
 CC AND C-TERMINAL PORTIONS OF THE MOLECULE, PROVIDING CONTROLLED
 CC RELEASE OF THE N-TERMINAL ANTIBACTERIAL FRAGMENT WHEN BACTERIA ARE
 CC INGESTED.
 CC -!- SIMILARITY: BELONGS TO THE BPI/CETP/LBP/FLIP FAMILY.
 CC
 CC This SWISS-PROT entry is copyright. It is produced through a collaboration
 CC between the Swiss Institute of Bioinformatics and the EMBL Outstation -
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 CC
 DR EMBL: J04739; AA051841.1; ALT_INT.
 DR EMBL: AF322588; AAG42844.1; -
 DR EMBL: AL359555; CAC13043.1; -
 DR EMBL: AL499625; CAC27350.1; -
 DR EMBL: AL391692; CAC10453.1; -
 DR PDB: 1BP1; 04-SEP-97.
 DR PDB: 1BWF; 21-JUN-00.
 DR Genew: HGNC:1095; BPI.
 DR MIM: 109295; -
 DR GO: GO:0005887; C:integral to plasma membrane; TAS.
 DR InterPro: IPR001124; LBP_BPI_CETP.
 DR Pfam: PF01273; LBP_BPI_CETP; 1.
 DR Pfam: PF02886; LBP_BPI_CETP_C; 1.
 DR SMART: SM00328; BPI2; 1.
 DR SMART: SM00329; BPI2; 1.
 DR PROSITE: PS00400; LBP_BPI_CETP; 1.

KW	Antibiotic; Signal; Transmembrane; Glycoprotein; 3D-structure.	
FT	SIGNAL	1 27
FT	CHAIN	28 483
FT	SITE	236
FT	CLEAVAGE SITES FOR ELASTASE (POTENTIAL).	365 385
FT	POTENTIAL.	12 12
FT	CONFLICT	12 12
FT	V -> A (IN REF. 3 AND 4).	212 212
FT	K -> E (IN REF. 4).	351 351
FT	P -> S (IN REF. 3).	371 371
FT	F -> L (IN REF. 2).	400 400
FT	N -> D (IN REF. 3).	407 407
FT	K -> R (IN REF. 3).	32 37
FT	STRAND	38 56
FT	HELIX	57 58
FT	TURN	64 70
FT	STRAND	71 73
FT	TURN	74 89
FT	STRAND	93 98
FT	TURN	99 101
FT	STRAND	102 122
FT	TURN	123 124
FT	STRAND	125 149
FT	TURN	150 153
FT	STRAND	154 163
FT	STRAND	168 172
FT	TURN	174 175
FT	HELIX	179 188
FT	TURN	189 189
FT	HELIX	190 217
FT	TURN	218 218
FT	STRAND	223 225
FT	STRAND	230 233
FT	STRAND	236 236
FT	STRAND	241 242
FT	STRAND	246 251
FT	STRAND	254 257
FT	STRAND	281 286
FT	HELIX	287 299
FT	TURN	300 301
FT	STRAND	304 307
FT	HELIX	309 311
FT	STRAND	321 321
FT	HELIX	322 325
FT	TURN	326 328
FT	TURN	330 331
FT	HELIX	332 335
FT	STRAND	340 347
FT	TURN	352 356
FT	STRAND	357 358
FT	STRAND	359 363
FT	TURN	365 373
FT	STRAND	375 376
FT	STRAND	379 388
FT	STRAND	391 398
FT	TURN	399 400
FT	STRAND	401 408
FT	STRAND	412 412
FT	STRAND	415 418
FT	TURN	419 420
FT	HELIX	425 428
FT	HELIX	429 450
FT	STRAND	452 453
FT	TURN	458 459
FT	STRAND	460 470
FT	TURN	471 472
FT	STRAND	473 483
SQ	SEQUENCE	483 AA: 53396 MW: AD58C92BCAD8F47C CRC64;

Query Match: 91.2%; Score 52; DR 1; Length 483;
 Best Local Similarity 100.0%; Pred. No. 0.021;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY      2 WLQQLFHKK 10
      | | | | | | |
Db      180 WLQQLFHKK 188

RESULT 2
BPI_BOVIN
ID      BPI_BOVIN      STANDARD3:      PRT:      482 AA.
AC      P17453;
DT      01-AUG-1990 (Rel. 15, Last sequence update)
DT      01-AUG-1990 (Rel. 15, Last sequence update)
DT      15-JUL-1998 (Rel. 36, Last annotation update)
DE      Bactericidal permeability-increasing protein precursor (BPI).
GN      BPI.
OS      Bos taurus (Bovine).
OC      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC      Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Bovidae; Bovidae;
OC      Bovidae; Bovinae; Bos.
OX      NCBI_TaxID=9913;
RN      [1]
RP      SEQUENCE FROM N.A.
RC      TISSUE-Bone marrow;
RX      MEDLINE=90272418; PubMed=2349103;
RA      Leong S.R., Camerato T.;
RT      "Nucleotide sequence of the bovine bactericidal permeability
RL      increasing protein (BPI).";
RL      Nucleic Acids Res. 18:3052-3052(1990).
CC      -!- FUNCTION: THE CYTOTOXIC ACTION OF BPI IS LIMITED TO MANY SPECIES
CC      OF GRAM-NEGATIVE BACTERIA; THIS SPECIFICITY MAY BE EXPLAINED BY A
CC      STRONG AFFINITY OF THE VERY BASIC N-TERMINAL HALF FOR THE
CC      NEGATIVELY CHARGED LIPOPOLYSACCHARIDES THAT ARE UNIQUE TO THE
CC      GRAM-NEGATIVE BACTERIAL OUTER ENVELOPE.
CC      -!- SUBCELLULAR LOCATION: MEMBRANE-ASSOCIATED IN POLYKORPHONUCLEAR
CC      LEUKOCYTES (PMN) GRANULES (BY SIMILARITY).
CC      -!- TISSUE SPECIFICITY: RESTRICTED TO CELLS OF THE MYELOID SERIES (BY
CC      SIMILARITY).
CC      -!- DOMAIN: THE N-TERMINAL REGION MAY BE EXPOSED TO THE INTERIOR OF
CC      THE GRANULE, WHEREAS THE C-TERMINAL PORTION MAY BE EMBEDDED IN THE
CC      MEMBRANE. DURING PHAGOCYTOSIS AND DEGRANULATION, PROTEASES MAY BE
CC      RELEASED AND ACTIVATED AND CLEAVE BPI AT THE JUNCTION OF THE N-
CC      AND C-TERMINAL PORTIONS OF THE MOLECULE, PROVIDING CONTROLLED
CC      RELEASE OF THE N-TERMINAL ANTIBACTERIAL FRAGMENT WHEN BACTERIA ARE
CC      INGESTED (BY SIMILARITY).
CC      -!- SIMILARITY: BELONGS TO THE BPI/CETP/LBP/PLTP FAMILY.
CC
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CC      between the Swiss Institute of Bioinformatics and the EMBL Outstation
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CC      use by non-profit institutions as long as its content is in no way
CC      modified and this statement is not removed. Usage by and for commercial
CC      entities requires a license agreement. (See http://www.isb-sib.ch/announce/
CC      or send an email to license@isb-sib.ch.)
CC
CC      EMBL: X52563; CAA36797.1;
CC      DR      PIR: S10180;
CC      DR      HSSP: P17213; LBPI.
CC      DR      InterPro: IPR001124; LBP_BPI_CETP.
CC      DR      Pfam: PF01273; LBP_BP_CETP; 1.
CC      DR      Pfam: PF02846; LBP_BP_CETP_C; 1.
CC      DR      SMART: SM00328; BPI; 1.
CC      DR      SMART: SM00329; BPI2; 1.
CC      DR      SMART: PS00400; LBP_BPI_CETP; 1.
CC      DR      PROSITE: PS00400; LBP_BPI_CETP; 1.
KW      Antibiotic; Signal; Membrane; Glycoprotein.
FT      SIGNAL      27      482
FT      CHAIN
FT
FT      SITE      235      240      BACTERICIDAL PERMEABILITY-INCREASING
FT      CLEAVAGE SITES FOR ELASTASE (POTENTIAL).
FT      FT      CARBOHYD 62      62      N-LINKED (GLCNAC...) (POTENTIAL).
FT      FT      CARBOHYD 303      303      N-LINKED (GLCNAC...) (POTENTIAL).
FT      FT      CARBOHYD 375      375      N-LINKED (GLCNAC...) (POTENTIAL).
FT      FT      CARBOHYD 389      389      N-LINKED (GLCNAC...) (POTENTIAL).
FT      FT      CARBOHYD 463      463      N-LINKED (GLCNAC...) (POTENTIAL).
SQ      SEQUENCE      482 AA: 53432 MW; DD7D59AE785BC42D CRG64;
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Query Match: 71.9%; Score 41; DB 1; Length 482;
Best Local Similarity: 77.6%; Pred. No. 2.5;
Matches: 7; Conservative: 1; Mismatches: 1; Indels: 0; Gaps: 0;

QY 2 WLQQLFHKK 10
 | | | | | | |
Db 179 WLQQLFHKK 187

RESULT 3
RBP2_HUMAN
ID RBP2_HUMAN STANDARD: PRT: 3224 AA.
AC P45792; Q15280;
DT 01-OCT-1996 (Rel. 34, Created)
DT 01-OCT-1996 (Rel. 34, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Ran-binding protein 2 (RanBP2) (Nuclear pore complex protein Nup358)
DE (Nucleoporin Nup358) (358 kDa nucleoporin) (P270).
GN RANBP2 OR NUP358.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=95294031; PubMed=7775481;
RA Wu J., Matunis M.J., Kraemer D., Blobel G., Coutavas E.;
RT "Nup358, a cytoplasmically exposed nucleoporin with peptide repeats,
RT Ran-GTP binding sites, zinc fingers, a cyclophilin A homologous
RT domain, and a leucine-rich region.";
RL J. Biol. Chem. 270:14209-14213(1995).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE-Blood;
RX MEDLINE=95327194; PubMed=7603572;
RA Yokoyama N., Hayashi N., Seki T., Nishii K., Hayashida T.,
RA Kuma K.I., Miyata T., Fukui M., Nishimoto T., Pante N., Aebi U.;
RT "A giant nucleoporin protein that binds Ran/TC4.";
RL Nature 376:184-188(1995).
RN [3]
RP X-RAY CRYSTALLOGRAPHY (2.96 ANGSTROMS) OF 1171-1304.
RX MEDLINE=99176415; PubMed=10078529;
RA Vetter I.R., Nowak C., Nishimoto T., Kuhlmann J., Wittinghofer A.;
RT "Structure of a Ran-binding domain complexed with Ran bound to a GTP
RT analogue: implications for nuclear transport.";
RL Nature 398:39-46(1999).
CC -!- FUNCTION: INVOLVED IN TRANSPORT FACTOR (RAN-GTP, KARYOPHERIN)-
CC MEDIATED PROTEIN IMPORT VIA THE F-G REPEAT-CONTAINING DOMAIN WHICH
CC ACTS AS A DOCKING SITE FOR SUBSTRATES. COULD ALSO HAVE ISOMERASE
CC OR CHAPERONE ACTIVITY AND MAY BIND RNA OR DNA. COMPONENT OF THE
CC NUCLEAR EXPORT PATHWAY. SPECIFIC DOCKING SITE FOR THE NUCLEAR
CC EXPORT FACTOR EXPORTIN-1.
CC -!- SUBUNIT: FORMS A TIGHT COMPLEX IN ASSOCIATION WITH RANBP1 AND THE
CC USJOUTIN-CONJUGATING ENZYME E2 (UBC9) (BY SIMILARITY).
CC -!- SURCELLULAR LOCATION: NUCLEAR PORE COMPLEX. CYTOPLASMIC FILAMENTS.
CC -!- DOMAIN: CONTAINS F-X-F-G REPEATS.
CC -!- SIMILARITY: CONTAINS 4 RanBP1 domains.
CC -!- SIMILARITY: CONTAINS 8 RANBP2-type zinc fingers.
CC -!- SIMILARITY: CONTAINS 1 cyclophilin-like ppiase domain.
CC
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CC modified and this statement is not removed. Usage by and for commercial
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CC or send an email to license@isb-sib.ch.)
CC
CC EMBL: L41840; AAC41758.1;
CC EMBL: D42063; BAA07662.1;
CC PIR: S58884; S58884.
CC PDB: 1RRP; 18-MAY-99.

Query Match	64.9%	Score 37	DB 1	Length 513
Best Local Similarity	66.7%	Pred. No. 16		
Matches	6	Conservative	1	Mismatches
			2	Indels
			0	Gaps

Qy 2 WLIQLFHK 10
||| |||
Db 264 WLI:AFHK 272

RESULT 5

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AVR2_HUMAN
ID   AVR2_HUMAN
AC   P27037; O92474;
DT   01-AUG-1992 (Rel. 23, Created)
DD   01-AUG-1992 (Rel. 23, Last sequence update)
DI   28-FEB-2003 (Rel. 41, Last annotation update)
DE   Activin receptor type II precursor (EC 2.7.1.37) (ACTR II) (ACTRII2).

```

OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI TaxID=9606;

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RP SEQUENCE FROM N.A.
RC TISSUE-Testis;
RX MEDLINE-92231944; PubMed-1314589;
RA Donaldson C.J., Mathews L.S., Vale W.W.;
RT "Molecular cloning and binding properties of the human type II
RL activin receptor.";
RL Biochem. Biophys. Res. Commun. 184:310-316(1992).

RP SEQUENCE FROM N.A.
RC TISSUE-Mammary gland;
RA Geiser A.S.;
RV Submitted (DEC-1991) to the EMBL/Genbank/UDC databases.
[4]

SEQUENCE FROM N.A.
RA Kimura T., Oida S.;
RL Submitted (NOV-1994) to the EMBL/GenBank/DDBJ databases.
CC
CC -!- FUNCTION: RECEPTOR FOR ACTIVIN A, ACTIVIN B, AND TGF-BETA1 A.
CC INVOLVED IN TRANSMEMBRANE SIGNALING.
CC -!- CATALYTIC ACTIVITY: ATP + a protein -> ADP + a phosphoprotein.
CC -!- SUBCELLULAR LOCATION: Type I membrane protein.
CC -!- SIMILARITY: BELONGS TO THE SER/THR FAMILY OF PROTEIN KINASES.
CC TGF-beta RECEPTOR SUBFAMILY.

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DR EMBL: X63128; CAA44839.1; -
DR EMBL: X62381; CAN44245.1; -
DR EMBL: M93415; AAA35504.1; -
DR EMBL: D31770; BAA06548.1; -
DR F0R; JQ1486; JQ1486.
DR HSSP: P27038; 1BTE.
DR Genew; HGNC:173; ACVR2.

DR GO:0005887; C: integral to plasma membrane; TAS.
DR GO:0007178; P: transmembrane receptor protein serine/threo. . . TAS.

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LR      InterPro: IPR003472; Activin_rec.
DR      InterPro: IPR003333; Actn_receptor1.
DR      InterPro: IPR00719; Prot_kinase.
DR      InterPro: IPR002290; Ser_thr_kinase.
DR      Pfam: PF01064; Activin_rec; 1.
DR      Pfam: P10069; kinase; 1.
DR      PRINTS: PR00653; ACTV1N2R.
DR      PRINTS: PR00653; kinase; 1.
DR      ProDom: PRD000001; Prot_kinase; 1.
DR      PROSITE: PS00107; PROTEIN_KINASE_ATP; FALSE_NEG.

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PROSITE: PS50011; PROTEIN KINASE DOM; 1.

KW	Receptor, histidine-, serine/threonine protein kinase, ATP binding site.
FT	Transmembrane; Glycoprotein; Signal.
FT	SIGNAL
FT	1
FT	CHAIN
FT	20 513 POTENTIAL.
FT	FT DOMAIN
FT	20 135 ACTIVE RECEPTOR TYPE II.
FT	TRANSMEM
FT	136 161 EXTRACELLULAR (POTENTIAL).
FT	DOMAIN
FT	162 513 POTENTIAL.
FT	DOMAIN
FT	192 485 CYTOPLASMIC (POTENTIAL).
FT	NP_BIND
FT	198 206 PROTEIN KINASE.
FT	BINDING
FT	219 206 ATP (BY SIMILARITY).
FT	BINDING
FT	ACT_SITE
FT	322 322 ATP (BY SIMILARITY).
FT	DISULFID
FT	30 60 BY SIMILARITY.
FT	DISULFID
FT	50 78 BY SIMILARITY.
FT	DISULFID
FT	91 104 BY SIMILARITY.
FT	DISULFID
FT	105 110 BY SIMILARITY.
FT	CARGOHD
FT	43 43 N-LINKED (GUCNAC. .) (POTENTIAL).
FT	CARGOHD
FT	56 66 N-LINKED (GUCNAC. .) (POTENTIAL).
FT	CONFLICT
FT	13 13 L -> V (IN REF. 4).
FT	CONFLICT
FT	204 206 GCV -> PSL (IN REF. 4).
FT	CONFLICT
FT	348 348 E -> R (IN REF. 4).
FT	SEQUENCE
FT	513 AA: 57847 MW: A89822B80979618 CRC64:

Query Match	64.98;	Score 37;	DB 1;	Length 513;
Best Local Similarity	66.78;	Pred. No. 16;		
Matches	6;	Conservative	1;	Mismatches 2;
				Indels 0;
				Gaps

Qy	2	WLIQLFHKK	10
Db	264	WLITAFHEK	273

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RESULT 6
AVR2_MOUSE
ID ID AVR2_MOUSE STANDARD; PRI: 513 AA.
AC P27038;
VT 01-AUG-1992 (Rel. 23, Created)
DT 01-AUG-1992 (Rel. 23, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE DE Activin receptor type II precursor (EC 2.7.1.37) (ACTR-II).
GS ACVR2 OR ACVR2A.
CS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
OX NCBI_Taxid-10090;
EN {}
RN {}
RP SEQUENCE FROM N.A.
RX MEDLINE-91256317; PubMed-1646080;
RA Mathews I.S., Vale W.W.;
WT "Expression cloning of an activin receptor, a predicted transmembrane
RL serine kinase.";
RL Celi 65:973-982(1991).
RN {}
RP X-RAY CRYSTALLOGRAPHY (1.5 ANGSTROMS) OF 25-121.
RX MEDLINE-99101377; PubMed-9866286;
RA Greenwald J., Fischer W.H., Vale W.W., Choe S.;
RI "Three-finger toxin fold for the extracellular ligand-binding domain
RI of the type II activin receptor serine kinase.";
RI Nat. Struct. Biol. 6:18-22(1999).
RN {}
RN {}
RN {}
RP DISULFIDE BONDS OF EXTRACELLULAR DOMAIN.
RX MEDLINE-99376271; PubMed-10449041;

```

RA Fischer W.H., Greenwald J., Park M., Craig A.G., Choe S., Vale W.;
 RT "The disulfide bond arrangement in the extracellular domain of the
 RL J. Protein Chem. 18:437-446(1999).
 CC -1- FUNCTION: RECEPTOR FOR ACTIVIN A, ACTIVIN B, AND INHIBIN A.
 CC INVOLVED IN TRANSMEMBRANE SIGNALING.
 CC -1- CATALYTIC ACTIVITY: ATP + a protein -> ADP + a phosphoprotein.
 CC -1- SUBCELLULAR LOCATION: Type I membrane protein.
 CC -1- TISSUE SPECIFICITY: BRAIN, TESTIS, INTESTINE, LIVER, AND KIDNEY.
 CC -1- SIMILARITY: BELONGS TO THE SER/THR FAMILY OF PROTEIN KINASES.
 CC TGF β RECEPTOR SUBFAMILY.
 CC -----
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 CC -----
 CC EMBL: M65287; AAA37171.1; .
 CC DB: A39896; A39896.
 CC PIR: A39896; A39896.
 CC PDB: 1BTE; 09-FER-99.
 CC MGI: MG1:102806; Acvr2.
 CC InterPro: IPR000472; Activin_rec.
 CC InterPro: IPR005333; Actn_receptorII.
 CC InterPro: IPR000719; Prot_kinase.
 CC Pfam: PF01064; Ser_thr_kinase.
 CC Pfam: PF00669; pkinase; 1.
 CC PRINTS: PR00653; ACTIVIN2R.
 CC PRODOM: PD000001; Prot_kinase; 1.
 CC PROSITE: PS00107; PROTEIN_KINASE_ATP; FALSE_NEG.
 CC PROSITE: PS00108; PROTEIN_KINASE_ST; 1.
 CC PROSITE: PS00111; PROTEIN_KINASE_DOM; 1.
 CC Receptor; Transferase; Serine/threonine-protein kinase; ATP-binding;
 KW Transmembrane; Glycoprotein; Signal; 3D-structure.
 FT SIGNAL 1 19 POTENTIAL.
 FT CHAIN 20 513 ACTIVIN RECEPTOR TYPE II.
 FT DOMAIN 20 135 EXTRACELLULAR (POTENTIAL).
 FT TRANSMEM 136 161 POTENTIAL.
 FT DOMAIN 162 513 CYTOPLASMIC (POTENTIAL).
 FT DOMAIN 192 485 PROTEIN KINASE.
 FT NP_BIND 198 206 ATP (BY SIMILARITY).
 FT BINDING 219 219 ATP (BY SIMILARITY).
 FT ACT_SITE 322 322 BY SIMILARITY.
 FT DISULFID 30 60
 FT DISULFID 50 78
 FT DISULFID 85 104
 FT DISULFID 91 103
 FT DISULFID 105 110
 FT CARBOHYD 43 43 N-LINKED (GLCNAC...) (POTENTIAL).
 FT CARBOHYD 66 66 N-LINKED (GLCNAC...) (POTENTIAL).
 FT STRAND 29 34
 FT TURN 35 36
 FT TURN 37 40
 FT HELIX 41 41
 FT STRAND 45 49
 FT STRAND 59 67
 FT TURN 68 69
 FT STRAND 70 79
 FT STRAND 91 93
 FT STRAND 101 105
 FT TURN 108 109
 FT HELIX 110 112
 FT STRAND 114 116
 SQ SEQUENCE 513 AA: 57889 MW: 4750292506;AAC61 CAC64;
 Query Match 64.9%; Score 37; DB 1; Length 513;
 Best Local Similarity 66.7%; Pred. No. 16;
 Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
 QY 2 WLJOLFHK 10

DB 264 WLITAFHEK 272
 I I I I I I I
 RESULT 7
 AVR2_RAI
 ID AVR2_RAI STANDARD: PRT: 513 AA.
 AC P38444;
 DT 01-OCT-1994 (Rel. 30, Created)
 DT 01-OCT-1994 (Rel. 30, Last sequence update)
 DT 28-FEB-2003 (Rel. 41, Last annotation update)
 DE Activin receptor type II precursor (EC 2.7.1.37) (ACTR-II).
 GN ACVR2 OR ACTRII.
 OS Rattus norvegicus (Rat).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
 OX NCBI_TaxID=10116;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=Sprague-Dawley; Tissue=Testis;
 RX MEDLINE=93279247; PubMed=7916681;
 RA Feng Z.M., Madigan M.B., Chen C.L.C.;
 RT "Expression of type II activin receptor genes in the male and female
 RT reproductive tissues of the rat";
 RL Endocrinology 132:2593-2600(1995).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC Tissue=Ovary;
 RX MEDLINE=93050162; PubMed=1385212;
 RA Shinozaki H., Ito I., Hasegawa Y., Nakamura K., Igarashi S.,
 RA Nakamura M., Miyamoto K., Eto Y., Ibuki Y., Minedishi T.;
 RT "Cloning and sequencing of a rat type II activin receptor";
 RL FEBS Lett. 312:53-56(1992).
 CC -1- FUNCTION: RECEPTOR FOR ACTIVIN A, ACTIVIN B, AND INHIBIN A.
 CC INVOLVED IN TRANSMEMBRANE SIGNALING.
 CC -1- CATALYTIC ACTIVITY: ATP + a protein -> ADP + a phosphoprotein.
 CC -1- SUBCELLULAR LOCATION: Type I membrane protein.
 CC -1- SIMILARITY: BELONGS TO THE SER/THR FAMILY OF PROTEIN KINASES.
 CC TGF β RECEPTOR SUBFAMILY.
 CC -----
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 CC or send an email to license@isb-sib.ch).
 CC -----
 CC EMBL: L10639; AAA06574.1; .
 CC EMBL: S48190; AAB23958.1; .
 CC PIR: S27258; S27258.
 CC HSSP: P27038; 1BTE.
 CC InterPro: IPR000472; Activin_rec.
 CC InterPro: IPR000333; Actn_receptorII.
 CC InterPro: IPR000719; Prot_kinase.
 CC InterPro: IPR002290; Ser_thr_kinase.
 CC Pfam: PF01064; Activin_rec; 1.
 CC Pfam: PF00669; pkinase; 1.
 CC PRINTS: PR00653; ACTIVIN2R.
 CC PRODOM: PD000001; Prot_kinase; 1.
 CC PROSITE: PS00107; PROTEIN_KINASE_ATP; FALSE_NEG.
 CC PROSITE: PS00108; PROTEIN_KINASE_ST; 1.
 CC PROSITE: PS00111; PROTEIN_KINASE_DOM; 1.
 CC Receptor; Transferase; Serine/threonine-protein kinase; ATP-binding;
 KW Transmembrane; Glycoprotein; Signal.
 FT SIGNAL 1 19 POTENTIAL.
 FT CHAIN 20 513 ACTIVIN RECEPTOR TYPE II.
 FT DOMAIN 20 135 EXTRACELLULAR (POTENTIAL).
 FT TRANSMEM 136 161 POTENTIAL.
 FT DOMAIN 162 513 CYTOPLASMIC (POTENTIAL).
 FT DOMAIN 192 485 PROTEIN KINASE.
 FT NP_BIND 198 206 ATP (BY SIMILARITY).
 FT BINDING 219 219 ATP (BY SIMILARITY).

PT ACT_SITE 322 322 BY SIMILARITY.
 FT DISULFID 30 60 BY SIMILARITY.
 FT DISULFID 50 78 BY SIMILARITY.
 FT DISULFID 85 104 BY SIMILARITY.
 FT DISULFID 91 103 BY SIMILARITY.
 FT DISULFID 105 110 BY SIMILARITY.
 FT CARBOHYD 43 43 N-LINKED (GLCNAC...) (POTENTIAL).
 FT CARBOHYD 56 66 N-LINKED (GLCNAC...) (POTENTIAL).
 FT CONFLICT 165 165 M -> K (IN REF. 2).
 FT CONFLICT 218 218 V -> I (IN REF. 2).
 FT CONFLICT 353 353 G -> A (IN REF. 2).
 FT CONFLICT 475 475 L -> V (IN REF. 2).
 SQ SEQUENCE 513 AA; 57892 MW; CE3A8742EP31DD7D CRC64;

Query Match 64.9%; Score 37; DB 1; Length 513;
 Best Local Similarity 66.7%; Pred. No. 16;
 Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 2 WLIOLFHKK 10
 DB 264 WLITAFHEK 272

RESULT 8

AVR2_SHEEP
 ID AVR2_SHEEP STANDARD; PRT; 513 AA.
 AC Q28560:
 DT 01-NOV-1997 (Rel. 35, Created)
 DT 01-NOV-1997 (Rel. 35, Last sequence update)
 DT 28-FEB-2003 (Rel. 41, Last annotation update)
 DE Activin receptor type II precursor (EC 2.7.1.37) (ACTR-II).
 GN AVR2 OR ACTRII.
 OS Ovis aries (Sheep).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
 OC Bovidae; Caprinae; Ovis.
 OX NCBI_TaxID:9940;
 RN [1]
 PP SEQUENCE FROM N.A.
 RC STRAIN-Romney; TISSUE-Ovarian follicle;
 RL Tisdall D.J.;
 RA Submitted (MAR-1996) to the EMBL/GenBank/DBJ databases.
 CC -!- FUNCTION: RECEPTOR FOR ACTIVIN A, ACTIVIN B, AND INHIBIN A.
 CC INVOLVED IN TRANSMEMBRANE SIGNALING.
 CC -!- CATALYTIC ACTIVITY: ATP + a protein -> ADP + a phosphoprotein.
 CC -!- SUBCELLULAR LOCATION: Type I membrane protein.
 CC -!- SIMILARITY: BELONGS TO THE SER/THR FAMILY OF PROTEIN KINASES.
 CC TGFβ RECEPTOR SUBFAMILY.

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 CC or send an email to license@isb-sib.ch).

 CC EMBL: L19442; AAA91903.1;
 CC HSP: P27038; 19TE.
 DR InterPro: IPR000472; Activin_rec.
 DR InterPro: IPR000333; Actn_receptorII.
 DR InterPro: IPR000719; Prot_kinase.
 DR InterPro: IPR002290; Ser_thr_pkinase.
 DR Pfam: PF01064; Activin_rec; 1.
 DR Pfam: PF00069; pkinase; 1.
 DR PRINTS: PR00653; ACTIVIN2R.
 DR PRODOM: PD000001; Prot_kinase; 1.
 DR PROSITE: PS00107; PROTEIN_KINASE_ATP; FALSE_NEG.
 DR PROSITE: PS00108; PROTEIN_KINASE_ST; 1.
 DR PROSITE: PS00011; PROTEIN_KINASE_DOM; 1.
 KW Receptor; Transferase; Serine/threonine-protein kinase; ATP-binding;
 KW Transmembrane; glycoprotein; Signal.
 FT SIGNAL 1 19 POTENTIAL.

PT CHAIN 20 513 ACTIVIN RECEPTOR TYPE II.
 FT DOMAIN 20 335 EXTRACELLULAR (POTENTIAL).
 FT TRANSMEM 136 161 POTENTIAL.
 FT DOMAIN 162 513 CYTOPLASMIC (POTENTIAL).
 FT DOMAIN 192 485 PROTEIN KINASE.
 FT NP_BIND 198 206 ATP (BY SIMILARITY).
 FT BINDING 219 219 ATP (BY SIMILARITY).
 FT ACT_SITE 322 322 BY SIMILARITY.
 FT DISULFID 30 60 BY SIMILARITY.
 FT DISULFID 50 78 BY SIMILARITY.
 FT DISULFID 85 104 BY SIMILARITY.
 FT DISULFID 91 103 BY SIMILARITY.
 FT DISULFID 105 110 BY SIMILARITY.
 FT CARBOHYD 43 43 N-LINKED (GLCNAC...) (POTENTIAL).
 FT CARBOHYD 56 66 N-LINKED (GLCNAC...) (POTENTIAL).
 SQ SEQUENCE 513 AA; 57768 MW; 7231BF9E85CA57E3 CRC64;

Query Match 64.9%; Score 37; DB 1; Length 513;
 Best Local Similarity 66.7%; Pred. No. 16;
 Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 2 WLIOLFHKK 10
 DB 264 WLITAFHEK 272

RESULT 9

AVR2_XENLA
 ID AVR2_XENLA STANDARD; PRT; 514 AA.
 AC P27039:
 DT 01-AUG-1992 (Rel. 23, Created)
 DT 01-AUG-1992 (Rel. 23, Last sequence update)
 DT 28-FEB-2003 (Rel. 41, Last annotation update)
 DE Activin receptor type II precursor (EC 2.7.1.37) (ACTR-II).
 OS Xenopus laevis (African clawed frog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Mesobatrachia; Pipiloidea; Pipidae;
 CC Xenopodinae; Xenopus.
 OX NCBI_TaxID:8355;
 RN [1]
 PP SEQUENCE FROM N.A.
 RC MEDLINE-92095974; PubMed-1661587;
 RA Kondo M., Taghito K., Fujii G., Asano M., Miyoshi R., Yamada R.,
 RA Matsumatsu M., Shikawa K.;
 RA "Activin receptor mRNA is expressed early in Xenopus embryogenesis
 and the level of the expression affects the body axis formation.";
 RT Biochem. Biophys. Res. Commun. 181:684-690(1991).
 CC -!- FUNCTION: RECEPTOR FOR ACTIVIN A, ACTIVIN B, AND INHIBIN A.
 CC INVOLVED IN TRANSMEMBRANE SIGNALING.
 CC -!- CATALYTIC ACTIVITY: ATP + a protein -> ADP + a phosphoprotein.
 CC -!- SUBCELLULAR LOCATION: Type I membrane protein.
 CC -!- SIMILARITY: BELONGS TO THE SER/THR FAMILY OF PROTEIN KINASES.
 CC TGFβ RECEPTOR SUBFAMILY.

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 CC or send an email to license@isb-sib.ch).

 CC EMBL: S70930; AAB20638.1;
 CC PIR: JQ1317; JQ1317.
 DR HSP: P27038; 19TE.
 DR InterPro: IPR000472; Activin_rec.
 DR InterPro: IPR000333; Actn_receptorII.
 DR InterPro: IPR000719; Prot_kinase.
 DR InterPro: IPR002290; Ser_thr_pkinase.
 DR InterPro: IPR001245; Tyr_pkinase.
 DR Pfam: PF01064; Activin_rec; 1.
 DR Pfam: PF00069; pkinase; 1.
 DR PRINTS: PR00653; ACTIVIN2R.

DR PRINTS: PR00109; TRYKINASE.
 DR PRODOM: PD000001; PROL_KINASE; 1.
 DR PROSITE: PS00107; PROTEIN_KINASE_ATP; FALSE_NEG.
 DR PROSITE: PS00108; PROTEIN_KINASE_ST; 1
 DR PROSITE: PS00101; PROTEIN_KINASE_DOM; 1.
 KW Receptor; Transferase; Serine/threonine-protein kinase; ATP-binding;
 KW Transmembrane; Glycoprotein; Signal.
 FT SIGNAL 1 20
 FT CHAIN 21 514
 FT DOMAIN 21 136
 FT TRANSMEM 137 362
 FT POTENTIAL 363 514
 FT CYTOPLASMIC (POTENTIAL).
 FT PROTEIN KINASE.
 FT NP_BIND 193 486
 FT BINDING 220 220
 FT ATP (BY SIMILARITY).
 FT ACT_SITE 323 323
 FT BY SIMILARITY.
 FT DISULFID 31 61
 FT BY SIMILARITY.
 FT DISULFID 51 79
 FT BY SIMILARITY.
 FT DISULFID 86 105
 FT BY SIMILARITY.
 FT DISULFID 92 104
 FT BY SIMILARITY.
 FT DISULFID 106 111
 FT BY SIMILARITY.
 FT CARBOHYD 46 46
 FT CARBOHYD 67 67
 FT CARBOHYD 88 88
 FT N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT N-LINKED (GLCNAC. . .) (POTENTIAL).
 SQ SEQUENCE 514 AA; 57903 MW; 9FA484D7F9756C26 CRC64;

Query Match 64.9%; Score 37; DB 1; Length 514;
 Best Local Similarity 66.7%; Pred. No. 16;
 Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY 2 WLIOLFHKK 10
 III III I
 DB 265 WLITAFHEK 273

RESULT 10
 SEC5_HUMAN STANDARD; Q96JW7; PRT: 924 AA.
 AC Q96JW7; Q96JW7; Q96JW7; Q96JW7;
 DT 28-FEB-2003 (Rel. 41, Created)
 DT 28-FEB-2003 (Rel. 41, Last sequence update)
 DE 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Exocyst complex component Sec5.
 CN SEC5L1 OR SEC5.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Sjolinder M., Ohlmann J., Ponstingl H.;
 RT "DELGEF regulates constitutive exocytosis";
 RL Submitted (SEP-2003) to the EMBL/GenBank/DBJ databases.
 RN [2]
 RP SEQUENCE OF 1-793 FROM N.A.
 RA Whitaker H.;
 RL Submitted (FEB-2000) to the EMBL/GenBank/DBJ databases.
 RN [3]
 RP SEQUENCE OF 119-924 FROM N.A.
 RC TISSUE=Breast;
 RX MEDLINE=22388257; PubMed=12477912;
 RA Strausberg R.L., Feingold E.A., Grouse J.H., Derge J.G.,
 RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
 RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
 RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
 RA Stapleton M., Soares M.B., Bonaldi M.F., Casavant T.L., Scheelz T.F.,
 RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
 RA Kaba S.S., Lequellano N.J., Peters G.J., Abramson R.D., Mullaly S.J.,
 RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Ganaratne P.H.,
 RA Richards S.K., Worley K.C., Hale S., Garcia A.M., Gay L.J., Helyk S.W.,
 RA Villalon D.K., Morley D.M., Sodergren E.J., Lu X., Gibbs R.A.,
 RA Fahey J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,

RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
 RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
 RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smalusz D.E.,
 RA Schnerch A., Schein J.E., Jones S.J.M., Maier M.A.,
 RC "Generation and initial analysis of more than 15,000 full-length
 RI human and mouse cDNA sequences.";
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
 RN [4]
 RP SEQUENCE OF 143-924 FROM N.A.
 NC TISSUE=Placenta;
 RA Isogai T., Ota T., Hayashi K., Suiyama T., Otsuki T., Suzuki Y.,
 RA Nishikawa T., Nagai K., Sugano S., Aotsuka S., Yoshikawa Y.,
 RA Matsunawa H., Ishii S., Kawai Y., Saito K., Yamamoto J., Wakamatsu A.,
 RA Nakamura Y., Nagahari K., Masubo Y., Sasaki N.,
 RT "NEO human cDNA sequencing project.";
 RL Submitted (FEB-2000) to the EMBL/GenBank/DBJ databases.
 CC -!- FUNCTION: Component of the exocyst involved in the docking
 CC of exocytic vesicles with fusions site on the plasma membrane.
 CC -!- SUBUNIT: The exocyst complex is composed of SEC3, SEC5, SEC6,
 CC SEC8, SEC10, SEC15, EXO70 and EXO84. Interacts with RALA (By
 CC similarity).
 CC -!- SIMILARITY: BELONGS TO THE SEC5 FAMILY.
 CC -!- SIMILARITY: Contains 1 TIG domain.
 CC -----
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 CC -----
 DR EMBL: AJ414403; CAC92092.1; .
 DR EMBL: AL031770; CAB54145.1; .
 DR EMBL: BC016918; AAL16918.1; ALT_INIT.
 DR EMBL: AK001888; BAA91963.1; ALT_INIT.
 DR InterPro: IPR002909; IPT_TIG.
 DR Pfam: PF01833; TIG; 1.
 KW Exocytosis; Transport; Protein transport; Coiled coil.
 FI DOMAIN 8 93
 FI DOMAIN 240 260
 FI COILED COIL (POTENTIAL).
 FI CONFLICT 522 522 L -> H (IN REF. 4).
 SQ SEQUENCE 924 AA; 104066 MW; 2234F463DE8B076F CRC64;

Query Match 64.9%; Score 37; DB 1; Length 924;
 Best Local Similarity 62.5%; Pred. No. 26;
 Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1 KWLIOFLFH 8
 III III I
 DB 379 KWLIOFLFH 386

RESULT 11
 NISB_LACTIA STANDARD; PRT: 993 AA.
 AC P20103;
 DT 01-FEB-1991 (Rel. 17, Created)
 DT 01-OCT-1993 (Rel. 27, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE Nisin biosynthesis protein nlsb.
 GN NISB.
 OS Lactococcus lactis (subsp. lactis) (Streptococcus lactis).
 CC Bacteria; Firmicutes; Lactobacillales; Streptococcaceae; Lactococcus.
 OX NCBI_TaxID=1360;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=6F3;
 RX MEDLINE=93128945; PubMed=1482192;
 RA Engelke G., Gutowski-Eckel Z., Hammelmann M., Entian K.-D.;
 RT "Biosynthesis of the lantibiotic nisin: genomic organization and
 RT membrane localization of the NisB protein.";

```
RL Appl. Environ. Microbiol. 58:3730-3743(1992).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=NIZO R5;
RX MEDLINE=93373937; PubMed=7689965;
RA Kuipers O.P., Beethuyzen M.M., Slezew R.N., de Vos W.M.;
RT "Characterization of the nisin gene cluster nisA-nisR of Lactococcus
RT lactis. Requirement of expression of the nisa and nist genes for
RT development of immunity.";
RL Eur. J. Biochem. 216:281-29.(1993).
RN [3]
RP SEQUENCE OF 1-852 FROM N.A.
RC STRAIN=ATCC 11454 / DSM 20729 / NCDO 496;
RX MEDLINE=91282469; PubMed=1905517;
RA Steen W.T., Chung Y.C., Hansen J.N.;
RT "Characterization of the nisin gene as part of a polycistronic operon
RT in the chromosome of Lactococcus lactis ATCC 11454.";
RL Appl. Environ. Microbiol. 57:1118-1188(1991).
RN [4]
RP SEQUENCE OF 1-53 FROM N.A.
RC STRAIN=ATCC 11454 / DSM 20729 / NCDO 496;
RX MEDLINE=89034093; PubMed=3141403;
RA Buchanan G.W., Banerjee S., Hansen J.N.;
RT "Structure, expression, and evolution of a gene encoding the
RT precursor of nisin, a small protein antibiotic.";
RL J. Biol. Chem. 263:15260-15266(1988).
RN [5]
RP SEQUENCE OF 1-7 FROM N.A.
RC STRAIN=JCM 7638;
RA Araya T., Ishibashi N., Shimamura S.;
RT "Genetic evidence that Lactococcus lactis JCM7638 produces a mutated
RT form of nisin.";
RL J. Gen. Appl. Microbiol. 38:271-278(1992).
CC -1- FUNCTION: INVOLVED IN THE POSTTRANSLATIONAL MODIFICATION OF THE
CC LANTIBIOTIC NISIN.
CC -1- SUBCELLULAR LOCATION: POSSIBLY ASSOCIATED WITH, AND ANCHORED TO,
CC THE CYTOPLASMIC SIDE OF THE MEMBRANE.
CC -1- SIMILARITY: TO B.SUBTILIS SPAB AND S.EPIDERMIDIS EPIL.
CC -----
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CC -----
DR EMBL: X68307; CAA48381.1; -
DR EMBL: L16225; AAA25190.1; -
DR EMBL: M65089; AAA73039.1; -
DR EMBL: J04057; AAA88607.1; -
DR EMBL: D10758; BAA01599.1; -
DR PIR: S36735; C31915
DR InterPro: IPR006827; Lant_dehyd_C.
DR InterPro: IPR005826; Lant_dehyd_N.
DR Pfam: PF04738; Lant_dehyd_C; -
DR Pfam: PF04737; Lant_dehyd_N; -
DR Transport: Transmembrane.
DR TRANSMEM 838 951 POTENTIAL.
FT CONFLICT 19 19 C -> S (IN REF. 2 AND 3).
FT CONFLICT 656 656 K -> E (IN REF. 2 AND 3).
FT CONFLICT 841 852 CADSKTIPNLT -> VPIKIPQZOLH (IN REF. 3).
FT CONFLICT 895 895 T -> P (IN REF. 2).
SQ SEQUENCE 993 AA; 117501 MW; 0027053BEAE71E2D CRC64;

Query Match 64.9%; Score 37; DP 1; Length 993;
Best Local Similarity 66.7%; Pred. No. 30;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KWLQLPFHK 9
Db 123 QWLRLVHK 131
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RESULT 12
VSGP_EBOIC
ID VSGP_EBOIC STANDARD; PRT: 365 AA.
AC Q6811;
DT 16-OCT-2001 (Rel. 40, Created);
DT 16-OCT-2001 (Rel. 40, Last sequence update);
DT 16-OCT-2001 (Rel. 40, Last annotation update);
DE Small/secreted glycoprotein precursor (SGP).
GN GP.
OS Ebola virus (strain Ivory Coast-94) (Ebov).
OC Viruses; ssRNA negative-strand viruses; Mononegavirales; Filoviridae;
OC Ebola-like viruses.
OX MCS_TaxID-128999;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=96195018; PubMed=8622982;
RA Sanchez A., Trappier S.G., Mahy B.W.J., Peters G.J., Nichol S.T.;
RT "The virion glycoproteins of Ebola viruses are encoded in two reading
RT frames and are expressed through transcriptional editing.";
RL Proc. Natl. Acad. Sci. U.S.A. 93:3602-3607(1996).
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- SIMILARITY: BELONGS TO THE FILOVIRUSES GLYCOPROTEIN FAMILY.
CC -----
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CC -----
DR EMBL: U28006; AAB37092.1; -
DR InterPro: IPR002361; Filo_glycop.
DR Pfam: PF01611; Filo_glycop. 1.
RW Glycoprotein; Signal.
FT SIGNAL 1 32 POTENTIAL.
FT CHAIN 33 365 SMALL/SECRETED GLYCOPROTEIN.
FT CARBOHYD 40 40 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 204 204 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 228 228 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 257 257 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 268 268 N-LINKED (GLCNAC. .) (POTENTIAL).
SQ SEQUENCE 365 AA; 41689 MW; D2D39579392F9C28 CRC64;

Query Match 63.2%; Score 36; DB 1; Length 365;
Best Local Similarity 75.0%; Pred. No. 17;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 WLIQLPFHK 9
Db 22 WVLILPFHK 25

RESULT 13
CG2_1-ANTNA
ID CG2_1-ANTNA STANDARD; PRT: 473 AA.
AC P34800;
DT 01-FEB-1994 (Rel. 28, Created);
DT 01-FEB-1994 (Rel. 28, Last sequence update);
DT 16-OCT-2001 (Rel. 40, Last annotation update);
DE G2/mitotic-specific cyclin 1.
OS Antirrhinum majus (Garden snapdragon).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; Core eudicots;
OC Asteridae; lamids; Lamiales; Antirrhinaceae; Antirrhineae;
OC Antirrhinum.
OX NCBI_TaxID-4151;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=94148008; PubMed=8313906;
RA Robert P.R., Coen E.S., Murphy G.J.P., Doonan J.H.;
RT "Patterns of cell division revealed by transcriptional regulation of
```


genes during the cell cycle in plants.";

EMBO J. 13:616-624(1994).

1- FUNCTION: ESSENTIAL FOR THE CONTROL OF THE CELL CYCLE AT THE G2/M (MITOSIS) TRANSITION. G2/M CYCLINS ACCUMULATE STEADILY DURING G2 (AND ARE ABRUPTLY DESTROYED AT MITOSIS).

1- SUBUNIT: INTERACTS WITH THE CDC2 AND CK2 PROTEIN KINASES TO FORM A SERINE/THREONINE KINASE Holoenzyme COMPLEX. THE CYCLIN SUBUNIT IMPARTS SUBSTRATE SPECIFICITY TO THE COMPLEX.

1- DEVELOPMENTAL STAGE: ACCUMULATES STEADILY DURING G2 AND IS ABRUPTLY DESTROYED AT MITOSIS.

1- SIMILARITY: BELONGS TO THE CYCLIN FAMILY. CYCLIN AB SUBFAMILY.

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EMBL; X76122; CAA53728.1; 1;
 PIR; S41709; S41709.
 HSP; P30274; IVIN.
 InterPro: IPR006670; Cyclin.
 InterPro: IPR004367; Cyclin_Cterm.
 InterPro: IPR006671; Cyclin_N.
 Pfam: PF00134; cyclin; 1.
 Pfam: PF02984; cyclin_C; 1.
 SMART; SM00385; CYCLIN; 2.
 PROSITE; PS00292; CYCLINS; 1.
 Cyclin; Cell cycle; Cell division; Mitosis.
 KW CYCLIN; 473 AA; 52704 MW; 502CF1735587638A CMC64;
 SQ SEQUENCE

Query Match 53.2%; Score 36; DP 1; Length 473;
 Best Local Similarity 52.5%; Pred. No. 22;
 Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 WCJQLPHK 9
 I: I: I:
 DB 232 WLVOVHHK 239

RESULT 14
 LBP_HUMAN
 ID LBP_HUMAN STANDARD; PRI: 481 AA.
 AC P18428; O43438; Q92672; Q9H403; Q9UD66;
 DT 01-NOV-1990 (Rel. 16, Created)
 DI 15-DEC-1998 (Rel. 37, Last sequence update)
 DT 28-FEB-2003 (Rel. 41, Last annotation update)
 DE Lipopolysaccharide-binding protein precursor (LBP).
 GN LBP.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
 OX NCBI_TaxID:9606;
 RN [1]
 RP SEQUENCE FROM N.A.; PubMed-2402637;
 RX MEDLINE-90385281; PubMed-7517398;
 RA Schumann R.R., Leong S.R., Flagg G.W., Gray P.W., Wright S.E.,
 RA Mathison J.C., Tobias P.S., Glevitch R.J.;
 RT "Structure and function of lipopolysaccharide binding protein.";
 RL Science 249:1429-1431(1990).
 RN [2]
 RP SEQUENCE FROM N.A.
 RX MEDLINE-94292492; PubMed-7517398;
 RA Lane C.G., Seilhamer J.J., McGrogan M., Ashton N., Snable J.L.,
 RA Lane J.C., Leong S.R., Thornton M.B., Miller K.L., Scott R.W.;
 RT "Bactericidal/permeability-increasing protein and lipopolysaccharide
 (LPS)-binding protein. LPS binding properties and effects on LPS-
 mediated cell activation.";
 RL J. Biol. Chem. 269:17411-17416(1994).
 RN [3]
 RP SEQUENCE FROM N.A.

RA Hubacek J.A., Aslanidis G., Schmitz G.;
 RC Submitted (OCT-1996) to the EMBL/GenBank/DBJ databases.
 RN [4]
 RP SEQUENCE FROM N.A.
 RX MEDLINE-98110577; PubMed-9441745;
 RA Kirschning C.J., Au-Young J., Famping N., Reuter D., Pfeil D.,
 RA Seilhamer J.J., Schumann R.R.;
 RT "Similar organization of the lipopolysaccharide-binding protein (LBP)
 and phospholipid transfer protein (PLTP) genes suggests a common gene
 family of lipid-binding proteins.";
 RL Genomics 46:416-425(1997).
 RN [5]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Liver;
 RA Long J.Y., Liu J.Q., Xue Y.N., Wang H.X.;
 RT "Cloning and sequencing of human lipopolysaccharide-binding protein
 gene.";
 RL Sheng Wu Huaxue Yu Shengwu Wuli Jinzhan 25:469-471(1998).
 RN [6]
 RP SEQUENCE FROM N.A.
 RX MEDLINE-21638749; PubMed-11780052;
 RA Deloukas P., Matthews L.H., Ashurst J., Hurton J., Gilbert J.G.R.,
 RA Jones M., Stavrides G., Almeida J.P., Babbage A.K., Baguley C.L.,
 RA Bailey J., Barlow K.F., Bates K.N., Beard L.M., Beare D.M.,
 RA Beasley O.P., Bird C.P., Blakey S.E., Bridgeman A.M., Brown A.J.,
 RA Buck D., Burrill W.D., Butler A.P., Carder C., Carter N.P.,
 RA Chapman J.C., Clamp M., Clark G., Clark L.N., Clark S.Y., Clee C.M.,
 RA Clegg S., Cobley V.E., Collier R.E., Connor R.E., Corby N.R.,
 RA Coulson A., Coville G.J., Deadman R., Dhami P.D., Dunn M.,
 RA Ellington A.G., Frankland J.A., Fraser A., French L., Garner P.,
 RA Grafham D.V., Griffiths C., Griffiths M.N.D., Gwilliam R., Hall R.E.,
 RA Hammond S., Harley J.L., Heath P.D., Ho S., Holden J.L., Howden P.J.,
 RA Huckle E., Hunt A.R., Hunt S.E., Jekosch K., Johnson C.M., Johnson D.,
 RA Kay M.P., Kimberley A.M., King A., Knights A., Laird G.K., Lawlor S.,
 RA Lechaveslao M.H., Leversha M.A., Lloyd D.M., Lovell J.D.,
 RA Marsh V.L., Martin S.L., McConachie L.J., McLay K., McMurray A.A.,
 RA Milne S.A., Mistry D., Moore M.J.F., Mullikin J.C., Nickerson I.,
 RA Oliver K., Parker A., Patel R., Pearce T.A.V., Peck A.J.,
 RA Phillimore B.J.C.I., Prathalingam S.R., Plumb R.W., Ramsay H.,
 RA Rice C.M., Ross M.T., Scott C.E., Senra H.K., Showkhen R., Sims S.,
 RA Skuce C.D., Smith M.L., Soderlund C., Steward C.A., Sulston J.E.,
 RA Swann R.M., Sycamore N., Taylor R., Tee L., Thomas D.W., Thorpe A.,
 RA Tracey A., Tromans A.C., Vaudin M., Wall M., Wallis J.M.,
 RA Whitehead S.L., Whitaker P., Willey D.L., Williams L., Williams S.A.,
 RA Wilming L., Wray P.W., Hubbard T., Durbin R.M., Bentley D.R., Beck S.,
 RA Rogers J.;
 RT "The DNA sequence and comparative analysis of human chromosome 20.";
 RL Nature 414:565-871(2001).
 RN [7]
 RP SEQUENCE OF 1-41 FROM N.A.
 RA Satten C.L., Smith R.I.F., Contola M.B., Theofan G.;
 RL Submitted (MAY-1995) to the EMBL/GenBank/DBJ databases.
 RN [8]
 RP 3D-STRUCTURE MODELING.
 RX MEDLINE-98227852; PubMed-9568897;
 RA Beamer L.C., Carroll S.P., Eisenberg D.;
 RT "The BPI/LBP family of proteins: a structural analysis of conserved
 regions.";
 RL Protein Sci. 7:906-914(1998).
 CC 1- FUNCTION: BINDS TO THE LIPID A MOIETY OF BACTERIAL
 LIPOPOLYSACCHARIDES (LPS), A GLYCOLIPID PRESENT IN THE OUTER
 MEMBRANE OF ALL GRAM-NEGATIVE BACTERIA. THE LBP/LPS COMPLEX SEEMS
 TO INTERACT WITH THE CD14 RECEPTOR.
 CC 1- SIMILARITY: BELONGS TO THE BPI/CETP/LBP/PLTP FAMILY.
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DR EMBL: M35533; AAC59493.1; .
 DR EMBL: X98557; CAA67226.1; .
 DR EMBL: X98558; CAA67226.1; JOINED.
 DR EMBL: X98559; CAA67226.1; JOINED.
 DR EMBL: X98560; CAA67226.1; JOINED.
 DR EMBL: X98561; CAA67226.1; JOINED.
 DR EMBL: X98562; CAA67226.1; JOINED.
 DR EMBL: X98563; CAA67226.1; JOINED.
 DR EMBL: X98564; CAA67226.1; JOINED.
 DR EMBL: X98565; CAA67226.1; JOINED.
 DR EMBL: X98566; CAA67226.1; JOINED.
 DR EMBL: X98567; CAA67226.1; JOINED.
 DR EMBL: X98568; CAA67226.1; JOINED.
 DR EMBL: AF013512; AAC39547.1; .
 DR EMBL: AF013500; AAC39547.1; JOINED.
 DR EMBL: AF013501; AAC39547.1; JOINED.
 DR EMBL: AF013502; AAC39547.1; JOINED.
 DR EMBL: AF013503; AAC39547.1; JOINED.
 DR EMBL: AF013504; AAC39547.1; JOINED.
 DR EMBL: AF013505; AAC39547.1; JOINED.
 DR EMBL: AF013506; AAC39547.1; JOINED.
 DR EMBL: AF013507; AAC39547.1; JOINED.
 DR EMBL: AF013508; AAC39547.1; JOINED.
 DR EMBL: AF013509; AAC39547.1; JOINED.
 DR EMBL: AF013510; AAC39547.1; JOINED.
 DR EMBL: AF013511; AAC39547.1; JOINED.
 DR EMBL: AF010567; AAD21962.1; .
 DR EMBL: AL080249; CAC10462.1; .
 DR EMBL: L42172; AAC66446.1; .
 DR PIR: A35843; A35843.
 DR PIR: A54136; A54136.
 DR HSP: P17213; LBP1.
 DR Genew: HGNC:6517; LBP.
 DR MIM: 151990; .
 DR GO: GO:0005615; C:extracellular space; TAS.
 DR GO: GO:0006953; P:acute-phase response; TAS.
 DR GO: GO:0006968; P:cellular defense response; TAS.
 DR GO: GO:0009618; P:response to pathogenic bacteria; TAS.
 DR InterPro: IPR001124; LBP_BPI_CETP.
 DR Pfam: PF01273; LBP_BPI_CETP; 1.
 DR Pfam: PF02886; LBP_BPI_CETP_C; 1.
 DR SMART: SM00328; BPI1; 1.
 DR SMART: SM00329; BPI2; 1.
 DR PROSITE: PS00400; LBP_BPI_CETP; 1.
 DR Lipid transport; Antibiotic; Transmembrane; Glycoprotein; Signal.
 FT SIGNAL 1 25
 FT CHAIN 26 481 LIPOPOLYSACCHARIDE-BINDING PROTEIN.
 FT CARBOHYD 300 300 N-LINKED (GLCNAC...) (POTENTIAL).
 FT CARBOHYD 355 355 N-LINKED (GLCNAC...) (POTENTIAL).
 FT CARBOHYD 386 386 N-LINKED (GLCNAC...) (POTENTIAL).
 FT CARBOHYD 394 394 N-LINKED (GLCNAC...) (POTENTIAL).
 FT CONFLICT 6 6 R -> H (IN REF. 2).
 FT CONFLICT 22 22 E -> C (IN REF. 2).
 FT CONFLICT 82 82 N -> X (IN REF. 4).
 FT CONFLICT 128 128 S -> F (IN REF. 4).
 FT CONFLICT 154 157 VTAS -> GYCL (IN REF. 1).
 FT CONFLICT 174 174 L -> S (IN REF. 1).
 FT CONFLICT 257 257 R -> S (IN REF. 4).
 FT CONFLICT 266 270 VMSLP -> A (IN REF. 1).
 FT CONFLICT 369 369 L -> H (IN REF. 4).
 FT CONFLICT 436 436 L -> F (IN REF. 2, 4 AND 5).
 SQ SEQUENCE 481 AA: 53349 MW: 85664595E5686400 CAC64;

Query Match 63.2%; Score 36; DB 1; Length 481;
 Best Local Similarity 55.6%; Pred. No. 23;

Matches 5; Conservative 2; Mismatches 0; Gaps 0;

QY 2 WL1QLPHKK 10

Db 176 WLLNLFHQ 164

RESULT 15

LBP_MOUSE
 ID LBP_MOUSE STANDARD; PRT: 481 AA.
 AC Q61905; Q99KA0;
 DT 01-NOV-1997 (Rel. 35, Created)
 DT 01-NOV-1997 (Rel. 35, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Lipopolysaccharide-binding protein precursor (LBP).
 GN LBP.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=BALB/C;
 RX MEDLINE=97289150; PubMed=9144073;
 RA Leqachet S., Jongeneel C.V., de Roy D., Lee C.J., Kravchenko V.,
 RA Ulevitch R.J., Glauser M.P., Heumann D.;
 RT *Reactivity of murine and human recombinant LPS-binding protein (LBP)
 RT within LPS and Gram-negative bacteria.*;
 RL J. Inflamm. 47:165-172(1995).
 RN [2]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=22388257; PubMed=12477932;
 RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
 RA Klausner R.D., Collins F.S., Wagner L., Shenon C.M., Schuler G.D.,
 RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Shih N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
 RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Schetz T.E.,
 RA Brownstein M.J., Ustin T.B., Toshiyuki S., Carninci P., Mullahy S.J.,
 RA Raba S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullen S.J.,
 RA Rosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
 RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
 RA Villalón D.K., Muzny K.D., Sodergren E.J., Lu X., Gibbs R.A.,
 RA Fahey J., Helton E., Kettman M., Madan A., Rodrigues S., Sanchez A.,
 RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
 RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
 RA Butlerfield V.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
 RA Scherch A., Schein J.E., Jones S.J.M., Marra M.A.;
 RT human and mouse cDNA sequences.*;
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
 CC -!- FUNCTION: BINDS TO THE LIPID A MOIETY OF BACTERIAL
 CC LIPOPOLYSACCHARIDES (LPS). A GLYCOLIPID PRESENT IN THE OUTER
 CC MEMBRANE OF ALL GRAM-NEGATIVE BACTERIA. THE LBP/LPS COMPLEX SEEMS
 CC TO INTERACT WITH THE CD14 RECEPTOR.
 CC -!- SIMILARITY: BELONGS TO THE BPI/CETP/LBP/PLTP FAMILY.
 CC -----
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 CC -----
 CC EMBL: X99347; CAA67727.1; .
 CC EMBL: BC004795; AA04795.1; .
 DR HSSP: P17213; LBP1.
 DR MGD: MGI:1098776; lbp.
 DR GO: GO:0001530; F:lipopolysaccharide binding activity; IDA.
 DR InterPro: IPR001124; LBP_BPI_CETP.
 DR Pfam: PF01273; LBP_BPI_CETP; 1.
 DR Pfam: PF02886; LBP_BPI_CETP_C; 1.
 DR SMART: SM00328; BPI1; 1.
 DR SMART: SM00329; BPI2; 1.
 DR PROSITE: PS00400; LBP_BPI_CETP; 1.
 KW Lipid transport; Antibiotic; Transmembrane; Glycoprotein; Signal.
 FT SIGNAL 1 24
 FT CHAIN 25 481 LIPOPOLYSACCHARIDE-BINDING PROTEIN.
 FT CARBOHYD 300 300 N-LINKED (GLCNAC...) (POTENTIAL).

FT CARBOHYD 355 355 N-LINKED (GLCNAC...) (POTENTIAL).
 FT CONFLICT 25 25 C -> G (IN REF. 2).
 FT CONFLICT 51 51 K -> Q (IN REF. 2).
 FT CONFLICT 102 102 R -> S (IN REF. 2).
 FT CONFLICT 280 280 A -> S (IN REF. 2).
 FT CONFLICT 310 310 H -> P (IN REF. 2).
 FT CONFLICT 313 313 G -> S (IN REF. 2).
 FT CONFLICT 341 341 R -> G (IN REF. 2).
 FT CONFLICT 382 382 S -> G (IN REF. 2).
 FT CONFLICT 395 396 TR -> NS (IN REF. 2).
 FT CONFLICT 418 418 I -> M (IN REF. 2).
 SQ SEQUENCE 481 AA: 53312 MW: 34EA9C066C9A8678 CRC64;

Query Match 63.2%; Score 36; DB 1; Length 48;
 Best Local Similarity 55.6%; Pred. No. 23;
 Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2 WLQLFHKK 10
 ||: ||| :
 Db 176 WLLNLFHQ 184

Search completed: October 1, 2003, 09:07:10
 Job time : 14 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: October 1, 2003, 09:06:03 ; Search time 34 seconds
(without alignments)
75,838 Million cells updates/sec

Title: US-09-881-490-126

Perfect score: 57

Sequence: 1 KWLQLFHKK 10

Scoring table: BLOSUM62

Gapop 10.0, Gapext 0.5

Searched: 830525 seqs, 258052604 residues

Total number of hits satisfying chosen parameters: 8,0525

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 5%

Maximum Match 100%

Listing first 45 summaries

Database :

- SPRENBL_23:
- 1: sp_archaea:
 - 2: sp_bacteria:
 - 3: sp_fungi:
 - 4: sp_human:
 - 5: sp_invertebrate:
 - 6: sp_mammal:
 - 7: sp_mmc:
 - 8: sp_organelle:
 - 9: sp_phase:
 - 10: sp_plant:
 - 11: sp_rodent:
 - 12: sp_virus:
 - 13: sp_vertebrate:
 - 14: sp_unclassified:
 - 15: sp_virus:
 - 16: sp_bacteriap:
 - 17: sp_archaeap:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	52	91.2	487	Q8IW58	Q8IW58 Homo sapien
2	45	76.9	486	Q8BSF3	Q8BSF3 Mus musculus
3	43	75.4	146	Q9CHG1	Q9CHG1 Lactococcus
4	43	75.4	178	Q9K40	Q9K40 Oryctolagus
5	42	73.7	221	Q9K959	Q9K959 Bacillus hu
6	42	73.7	904	Q9H052	Q9H052 Homo sapien
7	42	73.7	1785	Q99665	Q99665 Homo sapien
8	41	71.9	649	Q9U3V1	Q9U3V1 Cryptospori
9	41	71.9	1142	Q22528	Q22528 Caenorhabdi
10	40	70.2	179	Q9K39	Q9K39 Mus muscu
11	40	70.2	290	Q81875	Q81875 Hepatitis C
12	40	70.2	464	Q81DH8	Q81DH8 Plasmodium
13	40	70.2	303	Q9ER09	Q9ER09 Mus musculu
14	39	68.4	567	Q9SPN0	Q9SPN0 Artemisia a
15	38	66.7	683	Q8S2M2	Q8S2M2 Oryza sativ
16	37	64.9	96	Q9QU28	Q9QU28 tt virus. o

17	37	64.9	97	12	Q5QTX0
18	37	64.9	136	2	Q5Q280
19	37	64.9	159	2	Q8GRA3
20	37	64.9	175	6	Q9GIC1
21	37	64.9	183	2	Q8RTL2
22	37	64.9	232	12	Q915H0
23	37	64.9	272	16	Q88H8
24	37	64.9	292	13	Q9PSG1
25	37	64.9	345	12	Q55796
26	37	64.9	368	2	Q8VQ01
27	37	64.9	375	12	Q90759
28	37	64.9	404	2	Q9FT10
29	37	64.9	478	16	Q526K2
30	37	64.9	512	13	Q9PSM0
31	37	64.9	513	11	Q8BRV4
32	37	64.9	513	13	Q90745
33	37	64.9	513	13	Q90669
34	37	64.9	993	2	Q48673
35	37	64.9	1437	5	Q9G551
36	36.5	64.0	591	8	Q92293
37	36.5	64.0	684	8	Q19827
38	36.5	64.0	708	10	Q9FY15
39	36.5	64.0	721	8	Q9TH25
40	36	63.2	67	10	Q8LC31
41	36	63.2	67	10	Q8GYM5
42	36	63.2	77	12	Q9W7V0
43	36	63.2	133	12	Q9H04
44	36	63.2	133	12	Q9H01
45	36	63.2	134	12	Q95H99

ALIGNMENTS

RESULT 1

Q8IW58 Q8IW58 PRELIMINARY: PRT: 487 AA.

AC Q8IW58;

DT 01-MAR-2003 (TREMBLrel. 23, Created)

DT 01-MAR-2003 (TREMBLrel. 23, Last sequence update)

DT 01-MAR-2003 (TREMBLrel. 23, Last annotation update)

DS Similar to bactericidal/permeability-increasing protein.

OS Homo sapiens (Human).

OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;

OX Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

QC NCBI_TaxID=9606;

RN [1]

RP SEQUENCE FROM N.A.

RC TISSUE=Blood;

RA Strausberg R.;

RL Submitted (DEC-2002) to the EMBL/GenBank/DBJ databases.

DR EMBL; BC040955; AAAH0955.1;

SO SEQUENCE 487 AA; 53880 MW; FE709D9317E5206D CRC64;

Query Match 91.2%; Score 52; DB 4; Length 487;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 WLQLFHKK 10
|||||
DE 184 WLQLFHKK 192

RESULT 2

Q8BSF3 Q8BSF3 PRELIMINARY: PRT: 486 AA.

AC Q8BSF3;

DT 01-MAR-2003 (TREMBLrel. 23, Created)

DT 01-MAR-2003 (TREMBLrel. 23, Last sequence update)

DT 01-MAR-2003 (TREMBLrel. 23, Last annotation update)

DS Weakly similar to bactericidal/permeability-increasing protein precursor.

OS Mus musculus (Mouse).

```

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Epididymis;
RX MEDLINE=22354683; PubMed=12466851;
RA The FANTOM Consortium;
RT "Analysis of the mouse transcriptome based on functional annotation of
RT 60,770 full-length cDNAs.";
RL Nature 420:563-573(2002).
DR EMBL: AK033770; BAC28468.1;
SQ SEQUENCE 486 AA; 54351 MW; 908f627e5a5496062 CRC64;

Query Match 78.9%; Score 45; DB 11; Length 486;
Best Local Similarity 77.8%; Pred. No. 4;
Matches 7; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Oy 2 WLQLFHKK 10
   ||:||||:
Db 179 WLIRLPHRK 187

RESULT 3
O9CHG1 PRELIMINARY: PRT; 146 AA.
AC O9CHG1:
DT 01-JUN-2001 (TrEMBLrel. 17, Created)
DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
DT 01-MAR-2002 (TrEMBLrel. 20, Last annotation update)
DE Transcriptional regulator.
GN RMAG OR LG770.
OS Lactococcus lactis (subsp. lactis) (Streptococcus lactis).
OC Bacteria; Firmicutes; Lactobacillales; Streptococcaceae; Lactococcus.
OX NCBI_TaxID=1360;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=IL1403;
RX MEDLINE=21235186; PubMed=11337471;
RA Bolotin A., Wincker P., Mauger S., Jaillon O., Malarne K.,
RA Weissenbach J., Ehrlich S.D., Sorokin A.;
RT "The complete genome sequence of the lactic acid bacterium Lactococcus
RT lactis ssp. lactis IL1403.";
RL Genome Res. 11:751-753(2001).
CC -1- SIMILARITY: BELONGS TO THE MARR FAMILY OF TRANSCRIPTIONAL
CC REGULATORS.
DR EMBL: AE006310; AAK04868.1;
DR InterPro: IPR000835; Pfam: PF01047; HTH_Marr.
DR Pfam: PF01047; Marr; 1.
DR PRINTS: PR00598; HTHMARR.
DR SMART: SM00347; HTH_MARR; 1.
KW DNA-binding; Transcription regulation; Complete proteome.
SQ SEQUENCE 146 AA; 15808 MW; 30CF04E36E845953 CRC64;

Query Match 75.4%; Score 43; DB 16; Length 146;
Best Local Similarity 87.5%; Pred. No. 3; 2;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Oy 1 KWLQLFHK 8
   ||:||||
Db 10 EWLQLFHK 17

RESULT 4
O9GK40 PRELIMINARY: PRT; 176 AA.
AC O9GK40:
DT 01-MAR-2001 (TrEMBLrel. 16, Created)
DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
DT 01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
DE Bactericidal/permeability-increasing protein (Fragment).
OS Oryctolagus cuniculus (Rabbit).

```

```

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Lagomorpha; Leporidae; Oryctolagus.
OX NCBI_TaxID=9986;
RN [1]
RP SEQUENCE FROM N.A.
RC Xu J., Wang H.;
RT "Cloning of cDNA of rabbit bactericidal/permeability-increasing
RT protein amino-terminal fragment.";
RL Submitted (NOV-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL: AF322586; AAG42842.1;
DR HSSP: P17213; 1BP1.
DR InterPro: IPR001124; LBP_BPI_CETP.
DR Pfam: PF01273; LBP_BPI_CETP; 1.
DR SMART: SM00328; BPI1; 1.
ET NON_TER 1
FT NON_TER 178
SQ SEQUENCE 178 AA; 19693 MW; 867D7C6CA14B3A75 CRC64;

Query Match 75.4%; Score 43; DB 6; Length 178;
Best Local Similarity 66.7%; Pred. No. 3; 8;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Oy 2 WLQLFHKK 10
   ||:||||:
Db 142 WLLKLFHRR 150

RESULT 5
O9K959 PRELIMINARY: PRT; 221 AA.
AC O9K959:
DT 01-OCT-2000 (TrEMBLrel. 15, Created)
DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
DT 01-JUN-2001 (TrEMBLrel. 17, Last annotation update)
DE Mutants block sporulation after engulfment.
GN SPOIIIG OR BH2791.
OS Bacillus halodurans.
OC Bacteria; Firmicutes; Bacillales; Bacillaceae; Bacillus.
OX NCBI_TaxID=86665;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C-125 / JCM 9153;
RX MEDLINE=20512582; PubMed=11058132;
RA Takami H., Nakasone K., Takaki Y., Maeno G., Sasaki K., Masui N.,
RA Fuji F., Hirama C., Nakamura Y., Ogasawara N., Kihara S.,
RA Horikoshi K.;
RT "Complete genome sequence of the alkaliphilic bacterium Bacillus
RT halodurans and genomic sequence comparison with Bacillus subtilis.";
RL Nucleic Acids Res. 28:4317-4331(2000).
DR EMBL: AP001516; BAB06516.1;
KW Complete proteome.
SQ SEQUENCE 221 AA; 25145 MW; 5A6670EFD5F9957A CRC64;

Query Match 73.7%; Score 42; DB 16; Length 221;
Best Local Similarity 70.0%; Pred. No. 7;
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Oy 1 KWLQLFHKK 10
   ||:||||:
Db 10 OWLKKLFHKK 19

RESULT 6
O9H0B2 PRELIMINARY: PRT; 904 AA.
AC O9H0B2:
DT 01-MAR-2001 (TrEMBLrel. 16, Created)
DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
DE Hypothetical protein.
GN DKF2P434P14.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

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OC Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Testis;
 RX MEDLINE=21554917; PubMed=11230166;
 RA Wiemann S., Weil H., Wellenreuther R., Gassnerhuber J., Gissel S.,
 RA Ansoerge W., Bloecher M., Bloecher H., Bauersachs S., Blum H.,
 RA Lauber J., Duesterhoeft A., Beyer A., Koehler K., Strack N.,
 RA Meves H.W., Ottenwaelder B., Obertmaier B., Lampe J., Reutner U.,
 RA Wambutt R., Korn B., Klein M., Poustka A.;
 RT "Towards a Catalog of Human Genes and Proteins: Sequencing and
 RT Analysis of 500 Novel Complete Protein Coding Human cDNAs";
 RL Genome Res. 11:422-435(2001).
 DR EMBL; AL136868; CAB66502.1; .
 DR InterPro; IPR001440; TPR.
 DR Pfam; PF00515; TPR; 1.
 KW Hypothetical protein.
 SQ SEQUENCE 904 AA; 103313 MW; 32030C739F6E72EE CRC64;

Query Match 73.7%; Score 42; DB 4; Length 905;
 Best Local Similarity 77.8%; Pred. No. 24;
 Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 KWLQIQLFHK 9
 DB 456 KWLKQLFHR 464

RESULT 7

ID Q99666 PRELIMINARY; PRT; 1765 AA.
 AC Q99666;
 DT 01-MAY-1997 (TREMBlrel. 03, Created)
 DT 01-MAY-2000 (TREMBlrel. 13, Last sequence update);
 DT 01-OCT-2002 (TREMBlrel. 22, Last annotation update)
 DE Sperm membrane protein BS-63.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Testis;
 RX Wang L.F., Zhu H.D., Miao S.Y., Cao J.F., Wu Y.W., Zeng S.D.,
 RA Koide S.S.;
 RT "Molecular cloning and characterization of a novel testis-specific
 RT nucleoporin-related gene";
 RL Arch. Androl. 42:71-84(1999).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Testis;
 RX Wang L.;
 RN Submitted (JUL-1996) to the EMBL/GenBank/DBJ databases.
 RL [3]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Testis;
 RX Miao S.;
 RL Submitted (AUG-1999) to the EMBL/GenBank/DBJ databases.
 DR EMBL; U04675; AAB41848.2; .
 DR HSP; P49792; IRRP.
 DR Genew; HGNC:9849; RANBP2L1.
 DR InterPro; IPR000697; EVH1.
 DR InterPro; IPR000237; GRIP domain.
 DR InterPro; IPR000156; Ran_RP1.
 DR InterPro; IPR001440; TPR.
 DR Pfam; PF01465; GRIP; 1.
 DR Pfam; PF00638; Ran_RP1; 2.
 DR Pfam; PF00515; TPR; 1.
 DR SMART; SM00160; RANBP2; 2.
 DR PROSITE; PS50196; RANBP1; 2.
 SQ SEQUENCE 1765 AA; 198739 MW; B6E527AA73A8E93A CRC64;

Query Match 73.7%; Score 42; DB 4; Length 1765;
 Best Local Similarity 77.8%; Pred. No. 44;
 Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 KWLQIQLFHK 9
 DB 456 KWLKQLFHR 464

RESULT 8

ID Q903V1 PRELIMINARY; PRT; 649 AA.
 AC Q903V1;
 DT 01-MAY-2000 (TREMBlrel. 13, Created)
 DT 01-MAY-2000 (TREMBlrel. 13, Last sequence update)
 DT 01-MAR-2003 (TREMBlrel. 23, Last annotation update)
 DE Putative telomeric DNA binding protein.
 GN TEF1.
 OS Cryptosporidium parvum.
 OC Eukaryota; Alveolata; Apicomplexa; Coccidia; Eimeriida;
 OC Cryptosporidiidae; Cryptosporidium.
 OX NCBI_TaxID=5807;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=99448690; PubMed=10519245;
 RA Liu C., Abrahamson M.S.;
 RT "Identification of a putative telomeric repeat DNA binding factor of
 RT Cryptosporidium parvum";
 RL J. Eukaryot. Microbiol. 46:50S-51S(1999).
 RN [2]
 RP SEQUENCE FROM N.A.
 RX Liu C., Abrahamson M.S.;
 RL Submitted (JAN-2000) to the EMBL/GenBank/DBJ databases.
 CC -!- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).
 CC -!- SIMILARITY: CONTAINS 1 MYB-LIKE DOMAIN.
 DR EMBL; AF220540; AAF24519.1; .
 DR HSP; P54274; 1BA5.
 DR InterPro; IPR001005; Myb_DNA_binding.
 DR Pfam; PF00249; myb_DNA-binding; 1.
 DR SMART; SM00717; SANT; 1.
 DR PROSITE; PS50090; MYB_3; 1.
 KW DNA-binding; Nuclear protein.
 SQ SEQUENCE 649 AA; 73953 MW; 1A6A9B8F6F79B582 CRC64;

Query Match 71.9%; Score 41; DB 5; Length 649;
 Best Local Similarity 60.0%; Pred. No. 28;
 Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

OY 1 KWLQIQLFHK 10
 DB 156 KWLKQLFHK 165

RESULT 9

ID Q22528 PRELIMINARY; PRT; 1142 AA.
 AC Q22528;
 DT 01-NOV-1996 (TREMBlrel. 01, Created)
 DT 01-MAY-2000 (TREMBlrel. 13, Last sequence update)
 DT 01-MAR-2003 (TREMBlrel. 23, Last annotation update)
 DE T16G12.5 protein.
 GN T16G12.5.
 OS Caenorhabditis elegans.
 OC Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditidae; Rhabditoidea;
 OC Rhabditidae; Peloderinae; Caenorhabditis.
 OX NCBI_TaxID=6239;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Thomas K.;
 RL Submitted (MAR-1994) to the EMBL/GenBank/DBJ databases.
 RN [2]
 RP SEQUENCE FROM N.A.

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RX MEDLINE-99069613; PubMed-9851916;
RA none;
RT "Genome sequence of the nematode C.elegans: A platform for
RT investigating biology.";
RT Science 282:2012-2018(1998).
DR EMBL: Z30317; CAA62368.2; -.
DR WormPep: W16G12.5; CE23985.
SQ SEQUENCE 1142 AA; 131363 MW; 296CDF6B4FD02733 CRC64;

Query Match 71.9%; Score 41; DB 5; Length 1142;
Best Local Similarity 77.8%; Pred. No. 46;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KWLIGLPHK 3
Db 1043 KWLIGVPHK 105;

RESULT 10
O9GK39 PRELIMINARY; PRT; 179 AA.
AC O9GK39;
DT 01-MAR-2001 (TrEMBLrel. 16, Created)
DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
DT 01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
DE Bactericidal/permeability-increasing protein (fragment).
OS Macaca mulatta (Rhesus macaque).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Scrophiaceae;
OC Cercopitheciinae; Macaca.
OX NCBI_Taxid=9544;
RN [1]
RP SEQUENCE FROM N.A.
RA Xu J., Wang H.;
RT "Cloning of cDNA of rhesus monkey bactericidal/permeability-increasing
RT protein amino-terminal fragment.";
RL Submitted (NOV-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL: AF222587; AAG42843.1; -.
DR HSSP: P17213; IBPL.
DR InterPro: IPR001124; LBP_BPI_CETP.
DR Pfam: PF01273; LBP_BPI_CETP; 1.
DR SMART: SMC0328; BPI1; 1.
FT NON_TER 1
FT NON_TER 179
SQ SEQUENCE 179 AA; 19772 MW; F1B18A02A38CE63 CRC64;

Query Match 70.2%; Score 40; DB 6; Length 179;
Best Local Similarity 77.8%; Pred. No. 13;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 WLIQIFPKK 10
Db 143 WLIQIFPKK 151;

RESULT 11
O81875 PRELIMINARY; PRT; 290 AA.
AC O81875;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
DE RNA-directed RNA polymerase (fragment).
OS Hepatitis E virus.
OC Viruses; ssRNA positive-strand viruses, no DNA stage;
OC Hepatitis E-like viruses.
OX NCBI_Taxid=12461;
RN [1]
RP SEQUENCE FROM N.A.
RA Tam A.W., Smith M.N., Guerra C.-C., Bradley D.W.,
RA Fry K.E., Reyes G.R.;
RT "Hepatitis E virus (HEV): molecular cloning and sequencing of the

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RT full-length viral genome.";
RL Virology 185:120-131(1991).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE-92261377; PubMed=1584074;
RA Uchida T., Suzuki K., Hayashi N., Iida F., Hara T., Oo S.S.,
RA Wang C.-K., Shikata T., Ichikawa M., Rikihisa T., Mizuno K., Win K.M.;
RT "Hepatitis E virus: cDNA cloning and expression.";
RL Microbiol. Immunol. 36:67-79(1992).
RN [3]
RP SEQUENCE FROM N.A.
RX MEDLINE-92335008; PubMed=1630924;
RA Aye T.T., Uchida T., Ma X.Z., Iida F., Shikata T., Zhuang H.,
RA Win K.M.;
RT "Complete nucleotide sequence of a hepatitis E virus isolated from the
RT Xinjiang epidemic (1986-1988) of China.";
RL Nucleic Acids Res. 20:3512-3512(1992).
RN [4]
RP SEQUENCE FROM N.A.
RX MEDLINE-92115700; PubMed=1731327;
RA Tsarev S.A., Emerson S.O., Reyes G.R., Isareva T.S., Legters L.J.,
RA Malik J.A., Iqbal M., Purcell R.H.;
RT "Characterization of a prototype strain of hepatitis E virus.";
RL Proc. Natl. Acad. Sci. U.S.A. 89:559-563(1992).
RN [5]
RP SEQUENCE FROM N.A.
RX MEDLINE-93079857; PubMed=1448913;
RA Huang C.-C., Nguyen D., Fernandez J., Yun K.Y., Fry K.E., Bradley D.W.,
RA Tam A.W., Reyes G.R.;
RT "Molecular cloning and sequencing of the Mexico isolate of Hepatitis E
RT virus (HEV).";
RL Virology 191:550-558(1992).
RN [6]
RP SEQUENCE FROM N.A.
RX MEDLINE-92717462; PubMed=1589964;
RA Fry K.E., Tam A.W., Smith M.W., Kim J.P., Luk K.-C., Young L.M.,
RA Biatak M., Feldman R.A., Yun K.Y., Purdy M.A., McCaustland K.A.,
RA Bradley D.W., Reyes G.R.;
RT "Hepatitis E virus (HEV): Strain variation in the nonstructural gene
RT region encoding consensus motifs for an RNA-dependent RNA polymerase
RT and an ATP/GTP binding site.";
RL Virus Genes 6:173-185(1992).
RN [7]
RP SEQUENCE FROM N.A.
RA Sheng-Li B., Purdy M.A., McCaustland K.A., Margolis H.S.,
RA Bradley D.W.;
RT "The sequence of Hepatitis E virus isolated directly from a single
RT source during an outbreak in China.";
RL Virus Res. 0:0-0(1993).
DR EMBL: L10337; AAA45733.1; -.
DR InterPro: IPR001788; RNA_dep-RNAPol2.
DR InterPro: IPR007095; RNA_pol_DS_PS.
DR InterPro: IPR007094; RNA_pol_PSVir.
DR Pfam: PF00978; RNA_dep-RNAPol2; 1.
DR PROSITE: PS50507; RDRP_POSITIVE; 1.
DR PROSITE: PS50521; RDRP_VIRAL; 1.
KW RNA-directed RNA polymerase.
FT NON_TER 1
FT NON_TER 290
SQ SEQUENCE 290 AA; 31895 MW; 70105D1C1741A3AB CRC64;

Query Match 70.2%; Score 40; DB 12; Length 290;
Best Local Similarity 75.0%; Pred. No. 21;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KWLILPH 8
Db 149 KWLILPH 156

RESULT 12
O81D58 PRELIMINARY; PRT; 464 AA.
ID O81D58

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AC Q8IDH8;
DI 01-MAR-2003 (TrEMBLrel. 23, Created)
DI 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DI 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
DE Hypothetical protein.
GN MAI3P1.264.
OS Plasmodium falciparum (isolate 3N7).
OC Eukaryota; Alveolata; Apicomplexa; Haemosporida; Plasmodium.
OX NCBI_TaxID=16329;
RN [1]
RP SEQUENCE FROM N.A.
RA Harris B., Lennard N., Clark L., Line A., Harrow A., Corton J.,
RA Berriman M., Bain A., Hall N., Akin R., Chillingworth G., Desjardis J.,
RA Ormond D., Sanders M., Hayes R., Hall S., Quail M., Searle R.,
RL Submitted (SEP-2002) to the EMBL/GenBank/DBJ databases.
DE EMBL; AL844509; CDS52643..;
KW Hypothetical protein.
SQ SEQUENCE 464 AA: 55268 MW: 42882640CD85776 CRC64;

Query Match 70.2%; Score 40; DB 11; Length 3053;
Best Local Similarity 87.5%; Pred. No. 3;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 WLIQLFHKK 10
DB 306 WSELYHKK 314
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      |||:|:|

RESULT 13
Q9ERU9
ID Q9ERU9 PRELIMINARY: PRT: 3053 AA.
DI 01-MAR-2001 (TrEMBLrel. 16, Created)
DI 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
DI 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
DE Ran-binding protein 2.
GN RANBP2.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA STRAIN=129/Ola.
RC MEDLINE=21251165; PubMed=11353367;
RA Fauser S., Aslanov A., Roegmac R., Ferriciz P.A.;
RT "Genomic organization, expression, and localization of murine Ran-
binding protein 2 (RanBP2) gene."
RL Mamm. Genome 12:406-415(2001).
CC -1- SIMILARITY: CONTAINS 1 CYCLOPHILIN-LIKE PPASE DOMAIN.
DR EMBL; AF279458; AAG17403.1;
DR HSSP; P49792; 1RRP.
DR MGD; MGI:894323; Ranbp2.
DR InterPro; IPR002230; CSA_PPase.
DR InterPro; IPR000697; EVH1.
DR InterPro; IPR000156; Ran_BP1.
DR InterPro; IPR001440; TPR.
DR InterPro; IPR001876; Znf_RanGDP.
DR Pfam; PF00160; pro_isomerase_1.
DR Pfam; PF00638; Ran_BP2; 4.
DR Pfam; PF00515; TPR; 1.
DR Pfam; PF00641; zf-RanBP; 6.
DR PRINTS; PR00153; CSAPPISMRASE.
DR SMART; SM00160; RanBP; 4.
DR SMART; SM00547; Znf_RBZ; 6.
DR PROSITE; PS00170; CSA_PPASE_1; 1.
DR PROSITE; PS00072; CSA_PPASE_2; 1.
DR PROSITE; PS00196; RANBP1; 4.
DR PROSITE; PS01358; ZF_RANBP2_1; 6.
DR PROSITE; PS01358; ZF_RANBP2_2; 4.
KW Isomerase; Rotamase.
SQ SEQUENCE 3053 AA: 341087 MW: 685DF852644407DE CRC64;

Query Match 70.2%; Score 40; DB 11; Length 3053;
Best Local Similarity 87.5%; Pred. No. 3;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 WLIQLFHKK 10
DB 306 WSELYHKK 314
      |||:|:|
      |||:|:|

RESULT 14
Q9SPN0
ID Q9SPN0 PRELIMINARY: PRT: 567 AA.
DI 01-MAY-2000 (TrEMBLrel. 13, Created)
DI 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DI 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
DE (3R)-linalcol synthase (Fragment).
GN QH1.
OS Artemisia annua (Sweet wormwood).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
OC Asteridae; Campanulids; Asterales; Asteraceae; Asteroideae;
OC Anthemideae; Artemisia.
OX NCBI_TaxID=35608;
RN [1]
RP SEQUENCE FROM N.A.
RA MEDLINE=20031460; PubMed=10562427;
RA Jia J.W., Crook J., Lu S., Croteau R., Chen X.Y.;
RT "(3R)-Linalcol synthase from artemisia annua L.: cDNA isolation,
characterization, and wound induction."
RL Arch. Biochem. Biophys. 372:143-149(1999).
DR EMBL; AF154125; AAF13357.1;
DR HSSP; Q40577; 5EAU.
DR InterPro; IPR005630; Terpene_synth_C.
DR InterPro; IPR001906; Terp_synth_Like.
DR Pfam; PF01397; Terpene_synth; 1.
DR Pfam; PF03936; Terpene_synth_C; 1.
FT NON_TER 1
SQ SEQUENCE 567 AA: 65700 MW: 49D1985524EB2H5F CRC64;

Query Match 68.4%; Score 39; DB 10; Length 567;
Best Local Similarity 60.0%; Pred. No. 57;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
DB 227 KWFELYEKK 236
      |||:|:|
      |||:|:|

RESULT 15
Q8S2M2
ID Q8S2M2 PRELIMINARY: PRT: 683 AA.
DI 01-JUN-2002 (TrEMBLrel. 21, Created)
DI 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
DI 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
DE Far-red impaired response protein-like.
GN OSJNAG090K04.10 OR P0704D04.18.
OS Oryza sativa (japonica cultivar-group).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
OC Ehrhartoideae; Oryzae; Oryza.
OX NCBI_TaxID=39947;
RN [1]
RP SEQUENCE FROM N.A.
RA STRAIN=cv. Nipponbare.
RA Sasaki T., Matsumoto T., Yamamoto K.;
RT "Oryza sativa nipponbare(GAS) genomic DNA, chromosome 1, BAC
clone:OSJNBA0090K04."
RL Submitted (FEB-2001) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RA STRAIN=cv. Nipponbare.

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RA Sasaki T., Matsumoto T., Yamamoto K.:
 RT "Oryza sativa nipponbare(GA3) genomic DNA, chromosome 1, PAC
 RL clone: P0704B04.1";
 RL Submitted (FEB-2001) to the EMBL/GenBank/DBJ databases.
 DR EMBL: AP003216; BAB84834.1; -;
 DR EMBL: AP003303; BAB92478.1; -;
 DR Gramene: Q8S2M2; -;
 DR InterPro: IPR004330; IPR1.
 DR Pfam: PF03101; PAR1; 1.
 SQ SEQUENCE 683 AA: 77996 MW: 19031DC4250F92C CRC64:
 Query Match 66.7% Score 38; DS 10; Length 683;
 Best Local Similarity 70.0% Pred. No. 1e+02;
 Matches 7; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
 III : : : II
 DB 445 KWLRLFOKK 454

Search completed: October 1, 2003, 09:08:14
 Job time : 37 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: October 1, 2003, 09:42:03 : Search time 70 seconds
(without alignments)
22.675 Million cell updates/sec

Title: US-09-881-490-126

Perfect score: 57

Sequence: 1 KWLQLPHKK 10

Scoring table: BLOSUM62

Gapop 10.0, Gapext 0.5

Searched: 1107863 seqs, 158726573 residues

Total number of hits satisfying chosen parameters: 117

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 100%

Maximum Match 100%

Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	57	100.0	10	17	AAW04008
2	57	100.0	10	18	AAW15925
3	57	100.0	10	18	AAW44593
4	57	100.0	10	18	AAW44594
5	57	100.0	10	18	AAW44595
6	57	100.0	10	18	AAW44596
7	57	100.0	10	18	AAW43711
8	57	100.0	10	18	AAW43715
9	57	100.0	10	18	AAW44649

10	57	100.0	10	18	AAW44525	Anti-fungal peptid
11	57	100.0	10	18	AAW44603	Anti-fungal peptid
12	57	100.0	10	18	AAW44644	Anti-fungal peptid
13	57	100.0	10	18	AAW44645	Anti-fungal peptid
14	57	100.0	10	18	AAW44646	Anti-fungal peptid
15	57	100.0	10	18	AAW44643	Anti-fungal peptid
16	57	100.0	10	20	AAW00570	Antifungal peptide
17	57	100.0	10	20	AAW00571	Antifungal peptide
18	57	100.0	10	20	AAW00572	Antifungal peptide
19	57	100.0	10	20	AAW00573	Antifungal peptide
20	57	100.0	10	20	AAW00580	Antifungal peptide
21	57	100.0	10	20	AAW00502	Antifungal peptide
22	57	100.0	10	20	AAW00620	Antifungal peptide
23	57	100.0	10	20	AAW00621	Antifungal peptide
24	57	100.0	10	20	AAW00622	Antifungal peptide
25	57	100.0	10	20	AAW00623	Antifungal peptide
26	57	100.0	10	20	AAW00626	Antifungal peptide
27	57	100.0	10	22	AAW00626	Bactericidal/perme
28	57	100.0	10	22	AAW00626	Bactericidal/perme
29	57	100.0	10	22	AAW00626	Human BPI protein
30	57	100.0	10	22	AAW00626	Human BPI protein
31	57	100.0	10	22	AAW00626	Human BPI protein
32	57	100.0	10	22	AAW00626	Human BPI protein
33	57	100.0	10	22	AAW00626	Human BPI protein
34	57	100.0	10	22	AAW00626	Human BPI protein
35	57	100.0	10	22	AAW00626	Peptide-based cons
36	57	100.0	10	22	AAW00626	Peptide-based cons
37	57	100.0	10	22	AAW00626	Peptide-based cons
38	57	100.0	10	22	AAW00626	Peptide-based cons
39	57	100.0	10	22	AAW00626	Peptide-based cons
40	57	100.0	10	22	AAW00626	Peptide-based cons
41	57	100.0	10	22	AAW00626	Peptide-based cons
42	57	100.0	10	22	AAW00626	Peptide-based cons
43	57	100.0	10	22	AAW00626	Peptide-based cons
44	57	100.0	10	22	AAW00626	Peptide-based cons
45	57	100.0	10	22	AAW00626	Peptide-based cons
46	57	100.0	10	22	AAW00626	Peptide-based cons
47	57	100.0	10	22	AAW00626	Peptide-based cons
48	57	100.0	10	22	AAW00626	Peptide-based cons
49	57	100.0	10	22	AAW00626	Peptide-based cons
50	57	100.0	10	22	AAW00626	Peptide-based cons
51	57	100.0	10	22	AAW00626	Peptide-based cons
52	57	100.0	10	22	AAW00626	Peptide-based cons
53	57	100.0	10	22	AAW00626	Peptide-based cons
54	57	100.0	10	22	AAW00626	Peptide-based cons
55	57	100.0	10	22	AAW00626	Peptide-based cons
56	57	100.0	10	22	AAW00626	Peptide-based cons
57	57	100.0	10	22	AAW00626	Peptide-based cons
58	57	100.0	10	22	AAW00626	Peptide-based cons
59	57	100.0	10	22	AAW00626	Peptide-based cons
60	57	100.0	10	22	AAW00626	Peptide-based cons
61	57	100.0	10	22	AAW00626	Peptide-based cons
62	57	100.0	10	22	AAW00626	Peptide-based cons
63	57	100.0	10	22	AAW00626	Peptide-based cons
64	57	100.0	10	22	AAW00626	Peptide-based cons
65	57	100.0	10	22	AAW00626	Peptide-based cons
66	57	100.0	10	22	AAW00626	Peptide-based cons
67	57	100.0	10	22	AAW00626	Peptide-based cons
68	57	100.0	10	22	AAW00626	Peptide-based cons
69	57	100.0	10	22	AAW00626	Peptide-based cons
70	57	100.0	10	22	AAW00626	Peptide-based cons
71	57	100.0	10	22	AAW00626	Peptide-based cons
72	57	100.0	10	22	AAW00626	Peptide-based cons
73	57	100.0	10	22	AAW00626	Peptide-based cons
74	57	100.0	10	22	AAW00626	Peptide-based cons
75	57	100.0	10	22	AAW00626	Peptide-based cons
76	57	100.0	10	22	AAW00626	Peptide-based cons
77	57	100.0	10	22	AAW00626	Peptide-based cons
78	57	100.0	10	22	AAW00626	Peptide-based cons
79	57	100.0	10	22	AAW00626	Peptide-based cons
80	57	100.0	10	22	AAW00626	Peptide-based cons
81	57	100.0	10	22	AAW00626	Peptide-based cons
82	57	100.0	10	22	AAW00626	Peptide-based cons

83 57 100.0 11 17 AA0404043 Antifungal peptide
 84 57 100.0 11 17 AA040404 Antifungal peptide
 85 57 100.0 11 18 AA044582 Anti-fungal peptid
 86 57 100.0 11 18 AA043764 Bactericidal/perme
 87 57 100.0 11 18 AA043711 Bactericidal/perme
 88 57 100.0 11 18 AA044521 Anti-fungal peptid
 89 57 100.0 11 20 AA000559 Antifungal peptide
 90 57 100.0 11 20 AA000498 Antifungal peptide
 91 57 100.0 11 22 AAB65422 Anti-fungal peptid
 92 57 100.0 11 22 AAB65483 Anti-fungal peptid
 93 57 100.0 12 17 AA040001 Antifungal peptide
 94 57 100.0 12 18 AA043708 Bactericidal/perme
 95 57 100.0 12 18 AA044518 Anti-fungal peptid
 96 57 100.0 12 20 AA000495 Antifungal peptide
 97 57 100.0 12 22 AAB65419 Antifungal peptid
 98 57 100.0 13 17 AA0404053 Antifungal peptide
 99 57 100.0 13 18 AA043706 Bactericidal/perme
 100 57 100.0 13 18 AA044516 Anti-fungal peptid
 101 57 100.0 13 20 AA000493 Antifungal peptide
 102 57 100.0 13 22 AAB65417 Anti-fungal peptid
 103 57 100.0 14 15 AAR62100 BPI derived peptid
 104 57 100.0 14 16 AAR78006 BPI protein segmen
 105 57 100.0 14 16 AAR81070 BPI-97, domain III
 106 57 100.0 14 16 AAR81083 Anti-fungal BPI pe
 107 57 100.0 14 16 AAR86546 BPI-97 for use in
 108 57 100.0 14 16 AAR76333 Bacterial permeabi
 109 57 100.0 14 17 AA005943 Recombinant BPI pe
 110 57 100.0 14 17 AA040491 Antifungal peptide
 111 57 100.0 14 18 AA043642 Bactericidal/perme
 112 57 100.0 14 18 AA044430 Anti-fungal peptid
 113 57 100.0 14 19 AA063394 Human BPI protein
 114 57 100.0 14 20 AA000407 Antifungal peptide
 115 57 100.0 14 21 AAB16132 Bactericidal/perme
 116 57 100.0 14 22 AAB65331 Anti-fungal peptid
 117 57 100.0 14 22 AAB52302 Peptide BPI 97, U

ALIGNMENTS

RESULT 1
 AA040408
 ID AA040408 standard; peptide; 10 AA.
 XX
 AC AA040408;
 DT
 DE 04-NOV-1996 (first entry)
 DE Antifungal peptide XMP.293/XMP.363/XMP.364/XMP.365/XMP.366/XMP.373.
 XX
 KW Antifungal peptide; inhibitor; Domain III; polymorphonuclear leukocyte;
 KW bactericidal/permeability-increasing protein; BPI; mammalian; PMN; fungal;
 KW neutrophil; replication inhibitor; fungal infection; Aspergillus;
 KW Cryptococcus; Candida; C.albicans; C.galabrati; C.krusei; C.lusitanae;
 KW C.parapsilosis; C.tropicalis; therapy.
 XX
 OS Synthetic.
 XX
 XX Key Location/Qualifiers
 FT Modified-site 1
 FT /note= "optionally acetylated"
 FT Misc-difference 1-10
 FT /note= "optionally D-form residues"
 FT Modified-site 10
 FT /note= "amidated"
 FT
 XX
 XX W09608509-A1.
 XX
 XX 21-MAR-1996.
 XX
 XX 20-JUL-1995. 95WO-US09262.
 XX 13-JAN-1995; 95US-0372105.

PR 15-SEP-1994; 94US-0306473.
 XX (XOMA) XOMA CORP.
 PA Fadem MB, Lim E, Little RG;
 PI WPI; 1996-179900/18.
 XX
 XX Antifungal peptide(s) derived from Domain III of BPI protein - used
 PT in vitro for killing or inhibiting replication of fungi, esp.
 PT Candida species
 XX
 PS Claim 5; Page 141; 199pp; English.
 XX
 CC AA04000-W04160 represent antifungal peptides. These sequences are
 CC based on (or derived from) Domain III of the
 CC bactericidal/permeability-increasing protein (BPI). BPI is a protein
 CC that can be isolated from the granules of mammalian polymorphonuclear
 CC leukocytes (PMNs or neutrophils). These antifungal peptides can be used
 CC for killing, or inhibiting replication of, fungi in vitro. These
 CC sequences can also be used for treatment of a fungal infection involving
 CC fungi from the species Candida, Aspergillus and Cryptococcus. The
 CC sequences are especially useful for treating C.albicans, C.galabrati,
 CC C.krusei, C.lusitanae, C.parapsilosis and C.tropicalis infections.
 XX
 SQ Sequence 10 AA;
 Query Match 100.0%; Score 57; DB 17; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016; Mismatches 0; Indels 0; Gaps 0;
 Matches 10; Conservative 0;
 QY 1 KWLQLFHKK 10
 |||||
 Db 1 KWLQLFHKK 10
 |||||
 RESULT 2
 AA015925
 ID AA015925 standard; peptide; 10 AA.
 XX
 AC AA015925;
 DT 02-AUG-1999 (first entry)
 DE
 DE Bacterial/permeability increasing protein (BPI) fragment.
 XX
 KW Backbone cyclised peptide analogue; peptidomimetic; N-alpha derivative;
 KW bridging group; screening; bradykinin; Substance P; BPI; somatostatin;
 KW interleukin-6 inhibitory peptide; analogue; cyclic.
 XX
 OS Synthetic.
 XX
 XX Key Location/Qualifiers
 FT Modified-site 10
 FT /note= "amidated"
 FT
 XX W09709344-A2.
 XX
 XX 13-MAR-1997.
 XX
 XX 28-AUG-1996; 96WO-TL00091.
 XX
 XX 07-DEC-1995; 95US-0569042.
 XX 29-AUG-1995; 95IL-0115096.
 XX
 XX (PEPT-) PEPTOR LTD.
 XX (VISS) YISSUM RES & DEV CO.
 XX
 XX Gilon C. Hornik V;
 XX WPI; 1997-192838/17.
 XX
 XX Libraries of backbone-cyclised peptide analogues - are formed using

PT bridging peptide sequence attached via the alpha-nitrogens of amino
PT acid derivs. to provide new non-peptide linkages
XX
PS Example 11; Page 48; 106pp; English.

XX The specification describes a library of chemical compounds which
CC consists of a number of backbone-cyclised peptide analogues. Each
CC compound is composed of a peptide sequence having at least one
CC building unit comprising an N-alpha derivative of an amino acid. At
CC least one backbone nitrogen in each peptide sequence is linked to a
CC side chain of at least one other amino acid in the peptide sequence
CC or to at least one other backbone nitrogen in the peptide sequence
CC by a bridging group (comprising a disulphide, amide, thioether,
CC thioester, imine, ether or alkene bridge) to form a backbone-cyclised
CC peptide analogue. The libraries may be used for screening for
CC biologically active compounds, e.g. bradykinin agonists or antagonists,
CC substance P analogues, BPI analogues, somatostatin agonists or
CC antagonists or interleukin-6 inhibitory peptide analogues.
CC The present sequence represents a fragment of bacterial/permeability
CC increasing protein (BPI), which was used as a basis for producing
CC backbone-cyclic peptide libraries of the invention.

XX Sequence 10 AA:

Query Match 100.0%; Score 57; DB 18; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0016;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
| | | | | | | | | |
DB 1 KWLQLFHKK 10

RESULT 3
AAW44593
ID AAW44593 standard: peptide; 10 AA.

XX AC AAW44593;

XX 27-APR-1998 (first entry);

XX Anti-fungal peptide #194 based on BPI protein (residues 142-169).

XX Anti-fungal peptide; bactericidal-permeability-increasing protein; BPI;
XX polymorphonuclear leukocyte; fungicide.

OS Synthetic.
OS Mammalia.

XX Key Location/Qualifiers
FT Misc-difference 1 /note= "D-form residue"
FT Misc-difference 2 /note= "D-form residue"
FT Misc-difference 9 /note= "D-form residue"
FT Modified-site 10 /note= "D-form residue"
FT /note= "C-terminal amide, D-form residue"

XX WO9704008-A1.

XX 06-FEB-1997.

XX 21-MAR-1996; 96WO-US03845.

XX 20-JUL-1995; 95US-0504841.

XX (XOMA) XOMA CORP.

XX Fadem MB, Lim E, Little RG;

XX WPI; 1997-132578/12.

XX

PT Anti-fungal peptide(s) derived from or based on domain III of
PT bactericidal-permeability-increasing protein - are used in vitro or
PT in vivo as a fungicides

XX Claim 1; Page 205; 230pp; English.

XX This is a specifically claimed anti-fungal peptide which is based on
CC domain III (amino acids 142-160) of bactericidal-permeability-increasing
CC protein (BPI), isolated from the granules of mammalian polymorphonuclear
CC leukocytes. It is used in compositions with diluents, carriers or
CC adjuvants to treat fungal infections in patients. It may also be used in
CC vitro to kill or inhibit the replication of fungi, such as in
CC decontaminating fluids and sterilising medical and implant devices.

XX Sequence 10 AA:

Query Match 100.0%; Score 57; DB 18; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0016;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
| | | | | | | | | |
DB 1 KWLQLFHKK 10

RESULT 4
AAW44594
ID AAW44594 standard: peptide; 10 AA.

XX AC AAW44594;

XX 27-APR-1998 (first entry)

XX Anti-fungal peptide #195 based on BPI protein (residues 142-169).

XX Anti-fungal peptide; bactericidal-permeability-increasing protein; BPI;
XX polymorphonuclear leukocyte; fungicide.

OS Synthetic.
OS Mammalia.

XX Key Location/Qualifiers
FT Modified-site 1 /note= "N-terminal acetyl, D-form residue"
FT Misc-difference 2 /note= "D-form residue"
FT Misc-difference 9 /note= "D-form residue"
FT Modified-site 10 /note= "D-form residue"
FT /note= "C-terminal amide, D-form residue"

XX WO9704008-A1.

XX 06-FEB-1997.

XX 21-MAR-1996; 96WO-US03845.

XX 20-JUL-1995; 95US-0504841.

XX (XOMA) XOMA CORP.

XX Fadem MB, Lim E, Little RG;

XX WPI; 1997-132578/12.

XX Anti-fungal peptide(s) derived from or based on domain III of
PT bactericidal-permeability-increasing protein - are used in vitro or
PT in vivo as a fungicides

XX Claim 1; Page 206; 230pp; English.

XX This is a specifically claimed anti-fungal peptide which is based on
CC domain III (amino acids 142-160) of bactericidal-permeability-increasing

Handwritten signature

CC protein (BPI), isolated from the granules of mammalian polymorphonuclear
 CC leukocytes. It is used in compositions with diluents, carriers or
 CC adjuvants to treat fungal infections in patients. It may also be used in
 CC vitro to kill or inhibit the replication of fungi, such as in
 CC decontaminating fluids and sterilising medical and implant devices.
 XX
 SQ Sequence 10 AA;

Query Match 100.0%; Score 57; DB 18; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
 | | | | | | | | | |
 Db 1 KWLQLFHKK 10

RESULT 5
 AAW44595
 ID AAW44595 standard; peptide: 10 AA.

XX

AC AAW44595;

XX

DT 27-APR-1998 (first entry)

XX

DE Anti-fungal peptide #196 based on BPI protein (residues 142-169).

XX

KW Anti-fungal peptide; bactericidal-permeability-increasing protein; BPI;
 KW polymorphonuclear leukocyte; fungicide.

XX

OS Synthetic.

OS Mammalia.

XX

FH Key Location/Qualifiers

FT Misc-difference 1..10

FT /note= "D-form residues"

FT Modified-site 10

FT /note= "C-terminal amide, D-form residue"

XX

PN W09704008-A1.

XX

PD 06-FEB-1997.

XX

PF 21-MAR-1996; 96WO-US03845.

XX

PR 20-JUL-1995; 95US-0504841.

XX

PA (XOMA) XOMA CORP.

XX

PI Fadem MB, Lim E, Little RG;

XX

DR WPI; 1997-132578/12.

XX

XX

PT Anti-fungal peptide(s) derived from or based on domain III of

PT bactericidal-permeability-increasing protein - are used in vitro or

PT in vivo as a fungicides

XX

PS Claim 1; Page 207; 230pp; English.

XX

CC This is a specifically claimed anti-fungal peptide which is based on

CC domain III (amino acids 142-160) of bactericidal-permeability-increasing

CC protein (BPI), isolated from the granules of mammalian polymorphonuclear

CC leukocytes. It is used in compositions with diluents, carriers or

CC adjuvants to treat fungal infections in patients. It may also be used in

CC vitro to kill or inhibit the replication of fungi, such as in

CC decontaminating fluids and sterilising medical and implant devices.
 XX
 SQ Sequence 10 AA;

Query Match 100.0%; Score 57; DB 18; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
 | | | | | | | | | |
 Db 1 KWLQLFHKK 10

RESULT 6

AAW44596

ID AAW44596 standard; peptide: 10 AA.

XX

AC AAW44596;

XX

DT 27-APR-1998 (first entry)

XX

DE Anti-fungal peptide #197 based on BPI protein (residues 142-169).

XX

KW Anti-fungal peptide; bactericidal-permeability-increasing protein; BPI;
 KW polymorphonuclear leukocyte; fungicide.

XX

OS Synthetic.

OS Mammalia.

XX

FH Key Location/Qualifiers

FT Modified-site 1

FT /note= "N-terminal acetyl"

FT Misc-difference 1..10

FT /note= "D-form residues"

FT Modified-site 10

FT /note= "C-terminal amide"

XX

PN W09704008-A1.

XX

PD 06-FEB-1997.

XX

PF 21-MAR-1996; 96WO-US03845.

XX

PR 20-JUL-1995; 95US-0504841.

XX

PA (XOMA) XOMA CORP.

XX

PI Fadem MB, Lim E, Little RG;

XX

DR WPI; 1997-132578/12.

XX

XX

PT Anti-fungal peptide(s) derived from or based on domain III of

PT bactericidal-permeability-increasing protein - are used in vitro or

PT in vivo as a fungicides

XX

PS Claim 1; Page 207; 230pp; English.

XX

CC This is a specifically claimed anti-fungal peptide which is based on

CC domain III (amino acids 142-160) of bactericidal-permeability-increasing

CC protein (BPI), isolated from the granules of mammalian polymorphonuclear

CC leukocytes. It is used in compositions with diluents, carriers or

CC adjuvants to treat fungal infections in patients. It may also be used in

CC vitro to kill or inhibit the replication of fungi, such as in

CC decontaminating fluids and sterilising medical and implant devices.
 XX
 SQ Sequence 10 AA;

Query Match 100.0%; Score 57; DB 18; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
 | | | | | | | | | |
 Db 1 KWLQLFHKK 10

RESULT 7

AAW43771

ID AAW43771 standard; peptide: 10 AA.

XX

AC AAW43771;

XX Key Location/Qualifiers
 PY Modified-site 1 /note- "N-terminus is protected by 1-fluorenylmethyl-
 FT oxydonyl (Fmoc)"
 FT Modified-site 10
 FT /note- "C-terminal amide"
 XX
 XX WO9704008-A1.
 XX 06-FEB-1997.
 XX
 XX 21-MAR-1996; 96WO-US03845.
 XX
 XX 20-JUL-1995; 95US-0504841.
 XX (XOMA) XOMA CORP.
 XX
 XX Fadem MB, Lim E, Little RG;
 XX WPI: 1997-132578/12.
 XX
 XX Anti-fungal peptide(s) derived from or based on domain III of
 PT bactericidal-permeability-increasing protein - are used in vitro or
 PT in vivo as a fungicides
 XX
 XX Claim 1: -pp: 230pp; English.
 XX
 XX This is a specifically claimed anti-fungal peptide which is based on
 CC domain III (amino acids 142-160) of bactericidal-permeability-increasing
 CC protein (BPI), isolated from the granules of mammalian polymorphonuclear
 CC leukocytes. It is used in compositions with diluents, carriers or
 CC adjuvants to treat fungal infections in patients. It may also be used in
 CC vitro to kill or inhibit the replication of fungi. Such as in
 CC decontaminating fluids and sterilising medical and implant devices.
 XX
 XX Sequence 10 AA:
 Query Match 100.0%; Score 57; DB 18; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 KWLQLFHKK 10
 DB : KWLQLFHKK 10
 RESULT 10
 AAW44525
 ID AAW44525 standard; peptide; 10 AA.
 XX
 XX AC AAW44525;
 XX
 XX 27-APR-1998 (first entry)
 XX
 XX Anti-fungal peptide #126 based on BPI protein (residues 142-169).
 XX
 XX Anti-fungal peptide; bactericidal-permeability-increasing protein; BPI;
 KW polymorphonuclear leukocyte; fungicide.
 XX
 XX Synthetic.
 OS
 XX Mammalia.
 XX
 XX Key Location/Qualifiers
 FT Modified-site 1 /note- "N-terminal acetyl"
 FT Modified-site 10 /note- "C-terminal amide"
 FT
 XX WO9704008-A1.
 XX
 XX 06-FEB-1997.
 XX
 XX 21-MAR-1996; 96WO-US03845.
 XX
 XX 20-JUL-1995; 95US-0504841.
 XX (XOMA) XOMA CORP.
 XX
 XX Fadem MB, Lim E, Little RG;
 XX WPI: 1997-132578/12.
 XX
 XX Anti-fungal peptide(s) derived from or based on domain III of
 PT bactericidal-permeability-increasing protein - are used in vitro or
 PT in vivo as a fungicides
 XX
 XX Claim 1: -pp: 230pp; English.
 XX
 XX This is a specifically claimed anti-fungal peptide which is based on
 CC domain III (amino acids 142-160) of bactericidal-permeability-increasing
 CC protein (BPI), isolated from the granules of mammalian polymorphonuclear
 CC leukocytes. It is used in compositions with diluents, carriers or
 CC adjuvants to treat fungal infections in patients. It may also be used in
 CC vitro to kill or inhibit the replication of fungi. Such as in
 CC decontaminating fluids and sterilising medical and implant devices.
 XX
 XX Sequence 10 AA:
 Query Match 100.0%; Score 57; DB 18; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 KWLQLFHKK 10
 DB : KWLQLFHKK 10
 RESULT 10
 AAW44525
 ID AAW44525 standard; peptide; 10 AA.
 XX
 XX AC AAW44525;
 XX
 XX 27-APR-1998 (first entry)
 XX
 XX Anti-fungal peptide #126 based on BPI protein (residues 142-169).
 XX
 XX Anti-fungal peptide; bactericidal-permeability-increasing protein; BPI;
 KW polymorphonuclear leukocyte; fungicide.
 XX
 XX Synthetic.
 OS
 XX Mammalia.
 XX
 XX Key Location/Qualifiers
 FT Modified-site 10 /note- "C-terminal amide"
 FT
 XX WO9704008-A1.
 XX
 XX 06-FEB-1997.
 XX
 XX 21-MAR-1996; 96WO-US03845.
 XX

PR 20-JUL-1995; 95US-0504841.
 XX (XOMA) XOMA CORP.
 PA Fadem MB, Lim E, Little RG;
 PI WPI: 1997-132578/12.
 XX
 XX Anti-fungal peptide(s) derived from or based on domain III of
 PT bactericidal-permeability-increasing protein - are used in vitro or
 PT in vivo as a fungicides
 XX
 XX Claim 1: Page 178; 230pp; English.
 XX
 XX This is a specifically claimed anti-fungal peptide which is based on
 CC domain III (amino acids 142-160) of bactericidal-permeability-increasing
 CC protein (BPI), isolated from the granules of mammalian polymorphonuclear
 CC leukocytes. It is used in compositions with diluents, carriers or
 CC adjuvants to treat fungal infections in patients. It may also be used in
 CC vitro to kill or inhibit the replication of fungi. Such as in
 CC decontaminating fluids and sterilising medical and implant devices.
 XX
 XX Sequence 10 AA:
 Query Match 100.0%; Score 57; DB 18; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 KWLQLFHKK 10
 DB : KWLQLFHKK 10
 RESULT 10
 AAW44603
 ID AAW44603 standard; peptide; 10 AA.
 XX
 XX AC AAW44603;
 XX
 XX 27-APR-1998 (first entry)
 XX
 XX Anti-fungal peptide #204 based on BPI protein (residues 142-169).
 XX
 XX Anti-fungal peptide; bactericidal-permeability-increasing protein; BPI;
 KW polymorphonuclear leukocyte; fungicide.
 XX
 XX Synthetic.
 OS
 XX Mammalia.
 XX
 XX Key Location/Qualifiers
 FT Modified-site 1 /note- "N-terminal acetyl"
 FT Modified-site 10 /note- "C-terminal amide"
 FT
 XX WO9704008-A1.
 XX
 XX 06-FEB-1997.
 XX
 XX 21-MAR-1996; 96WO-US03845.
 XX
 XX 20-JUL-1995; 95US-0504841.
 XX (XOMA) XOMA CORP.
 XX
 XX Fadem MB, Lim E, Little RG;
 XX WPI: 1997-132578/12.
 XX
 XX Anti-fungal peptide(s) derived from or based on domain III of
 PT bactericidal-permeability-increasing protein - are used in vitro or
 PT in vivo as a fungicides
 XX

PS Claim 1; Page 211; 230pp; English.

XX This is a specifically claimed anti-fungal peptide which is based on:
CC domain II; (amino acids 142-160) of bactericidal-permeability-increasing
CC protein (BPI), isolated from the granules of mammalian polymorphonuclear
CC leukocytes. It is used in compositions with diluents, carriers or
CC adjuvants to treat fungal infections in patients. It may also be used in
CC vitro to kill or inhibit the replication of fungi, such as in
CC decontaminating fluids and sterilising medical and implant devices.

XX SQ Sequence 10 AA;

Query Match 100.0%; Score 57; DB 18; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.0016;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10

Db 1 KWLQLFHKK 10

RESULT 12

AAW44644

ID AAW44644 standard; peptide: 10 AA.

XX AC AAW44644;

XX DT 27-APR-1998 (first entry)

XX DE Anti-fungal peptide #245 based on BPI protein (residues 142-169).

XX DE Anti-fungal peptide; bactericidal-permeability-increasing protein; BPI;

XX KW polymorphonuclear leukocyte; fungicide.

XX OS Synthetic.

XX OS Mammalia.

XX Key Location/Qualifiers

XX FT Misc-difference 1..10 /note= "D-form residues"

XX FT Modified-site 1

XX FT Modified-site 10 /note= "N-terminus modified by CH₃-(CH₂)₁₀CO"

XX FT Modified-site 10 /note= "C-terminal amide"

XX DN W09704008-A1.

XX XX 06-FEB-1997.

XX XX 21-MAR-1996; 96WO-US03845.

XX XX 20-JUL-1995; 95US-0504841.

XX XX (XOMA) XOMA CORP.

XX PI Fadem MB, Lim E, Little RG;

XX DR WPI: 1997-132578/12.

XX Anti-fungal peptide(s) derived from or based on domain III of
XX bactericidal-permeability-increasing protein - are used in vitro or
XX in vivo as a fungicides

XX Claim 1; -pp: 230pp; English.

XX This is a specifically claimed anti-fungal peptide which is based on
XX domain III (amino acids 142-160) of bactericidal-permeability-increasing
XX protein (BPI), isolated from the granules of mammalian polymorphonuclear
XX leukocytes. It is used in compositions with diluents, carriers or
XX adjuvants to treat fungal infections in patients. It may also be used in
XX vitro to kill or inhibit the replication of fungi, such as in
XX decontaminating fluids and sterilising medical and implant devices.

SQ Sequence 10 AA;

Query Match 100.0%; Score 57; DB 18; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.0016;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10

Db 1 KWLQLFHKK 10

RESULT 13

AAW44645

ID AAW44645 standard; peptide: 10 AA.

XX AC AAW44645;

XX DT 27-APR-1998 (first entry)

XX DE Anti-fungal peptide #246 based on BPI protein (residues 142-169).

XX DE Anti-fungal peptide; bactericidal-permeability-increasing protein; BPI;

XX KW polymorphonuclear leukocyte; fungicide.

XX OS Synthetic.

XX OS Mammalia.

XX Key Location/Qualifiers

XX FT Misc-difference 1..10 /note= "D-form residues"

XX FT Modified-site 1

XX FT Modified-site 10 /note= "N-terminus modified by NH₂-(CH₂)₇CO"

XX FT Modified-site 10 /note= "C-terminal amide"

XX PN W09704008-A1.

XX XX 06-FEB-1997.

XX XX 21-MAR-1996; 96WO-US03845.

XX XX 20-JUL-1995; 95US-0504841.

XX XX (XOMA) XOMA CORP.

XX PI Fadem MB, Lim E, Little RG;

XX DR WPI: 1997-132578/12.

XX Anti-fungal peptide(s) derived from or based on domain III of
XX bactericidal-permeability-increasing protein - are used in vitro or
XX in vivo as a fungicides

XX Claim 1; -pp: 230pp; English.

XX This is a specifically claimed anti-fungal peptide which is based on
XX domain III (amino acids 142-160) of bactericidal-permeability-increasing
XX protein (BPI), isolated from the granules of mammalian polymorphonuclear
XX leukocytes. It is used in compositions with diluents, carriers or
XX adjuvants to treat fungal infections in patients. It may also be used in
XX vitro to kill or inhibit the replication of fungi, such as in
XX decontaminating fluids and sterilising medical and implant devices.

SQ Sequence 10 AA;

Query Match 100.0%; Score 57; DB 18; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.0016;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10

Db 1 KWLQLFHKK 10

RESULT 14
AAW44646
ID AAW44646 standard; peptide; 10 AA.
XX AC AAW44646;
XX AC AAW44646;
XX 27-APR-1998 (first entry)
XX DE Anti-fungal peptide #247 based on BPI protein (residues 142-169).
XX KW Anti-fungal peptide; bactericidal-permeability-increasing protein; BPI;
XX KW polymorphonuclear leukocyte; fungicide.
XX OS Synthetic.
XX OS Mammalia.
XX FH Key Location/Qualifiers
XX FT Misc-difference 1..10
XX FT /note- "D-form residues"
XX FT Modified-site 1
XX FT /note- "N-terminus modified by NH2-(CH2)11CO"
XX FT Modified-site 10
XX FT /note- "C-terminal amide"
XX PN W09704038-A1.
XX XX
XX 06-FEB-1997.
XX 21-MAR-1996; 96WO-US03845.
XX 20-JUL-1995; 95US-0504841.
XX (XOMA) XOMA CORP.
XX Fadem MB, Lim E, Little RG;
XX WPI: 1997-132578/12.
XX PT Anti-fungal peptide(s) derived from or based on domain III of
XX PT bactericidal-permeability-increasing protein - are used in vitro or
XX PT in vivo as a fungicides
XX PS Claim 1: -pp: 230pp; English.
XX CC This is a specifically claimed anti-fungal peptide which is based on
XX CC domain III (amino acids 142-160) of bactericidal-permeability-increasing
XX CC protein (BPI), isolated from the granules of mammalian polymorphonuclear
XX CC leukocytes. It is used in compositions with diluents, carriers or
XX CC adjuvants to treat fungal infections in patients. It may also be used in
XX CC vitro to kill or inhibit the replication of fungi, such as in
XX CC decontaminating fluids and sterilising medical and implant devices.
XX SQ Sequence 10 AA;
Query Match 100.0%; Score 57; DB 18; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0016;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 KWLQLFHHK 10
DB 1 KWLQLFHHK 10
RESULT 15
AAW44643
ID AAW44643 standard; peptide; 10 AA.
XX AC AAW44643;
XX AC AAW44643;
XX 27-APR-1998 (first entry)
XX DE Anti-fungal peptide #244 based on BPI protein (residues 142-169).
XX KW Anti-fungal peptide; bactericidal-permeability-increasing protein; BPI;
XX KW Candida infection.
XX OS Synthetic.
XX OS US5858974-A.
XX PN US5858974-A.
XX XX
XX 12-JAN-1999.
XX PD
XX XX

XX
KW
KW Anti-fungal peptide; bactericidal-permeability-increasing protein; BPI;
XX polymorphonuclear leukocyte; fungicide.
XX OS Synthetic.
XX OS Mammalia.
XX FH Key Location/Qualifiers
XX FT Misc-difference 1..10
XX FT /note- "D-form residues"
XX FT Modified-site 1
XX FT /note- "N-terminus modified by CH3-(CH2)6CO"
XX FT Modified-site 10
XX FT /note- "C-terminal amide"
XX PN W09704038-A1.
XX XX
XX 06-FEB-1997.
XX 21-MAR-1996; 96WO-US03845.
XX 20-JUL-1995; 95US-0504841.
XX (XOMA) XOMA CORP.
XX Fadem MB, Lim E, Little RG;
XX WPI: 1997-132578/12.
XX PT Anti-fungal peptide(s) derived from or based on domain III of
XX PT bactericidal-permeability-increasing protein - are used in vitro or
XX PT in vivo as a fungicides
XX PS Claim 1: -pp: 230pp; English.
XX CC This is a specifically claimed anti-fungal peptide which is based on
XX CC domain III (amino acids 142-160) of bactericidal-permeability-increasing
XX CC protein (BPI), isolated from the granules of mammalian polymorphonuclear
XX CC leukocytes. It is used in compositions with diluents, carriers or
XX CC adjuvants to treat fungal infections in patients. It may also be used in
XX CC vitro to kill or inhibit the replication of fungi, such as in
XX CC decontaminating fluids and sterilising medical and implant devices.
XX SQ Sequence 10 AA;
Query Match 100.0%; Score 57; DB 18; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0016;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 KWLQLFHHK 10
DB 1 KWLQLFHHK 10
RESULT 16
AAW00570
ID AAW00570 standard; Peptide; 10 AA.
XX AC AAW00570;
XX AC AAW00570;
XX 07-MAY-1999 (first entry)
XX DE Antifungal peptide XMP 363.
XX KW Antifungal; BPI; bactericidal/permeability increasing protein;
XX KW Candida infection.
XX OS Synthetic.
XX OS US5858974-A.
XX PN US5858974-A.
XX XX
XX 12-JAN-1999.
XX PD
XX XX

PF 21-MAR-1996; 96US-0621259.
 XX 21-MAR-1996; 96US-0621259.
 PR 20-JUL-1995; 95US-0504841.
 XX (XOMA) XOMA CORP.
 PA

XX Fadem MB, Lim E, Little RG;
 XX WPI: 1999-119956/10.

XX Antifungal peptides - comprising part of bactericidal or
 PT permeability-increasing protein sequence or related sequence
 PS Disclosure: Columns 189-190; 132pp; English.

XX New peptides are provided which are based on Domain III (amino acids
 CC 142-169) of human bactericidal/permeability-increasing protein (BPI).
 CC The peptides all have a C-terminal amide. More particularly, the Claims
 CC relate to: (1) a peptide that has an amino acid sequence of human BPI
 CC from position 148 to position 161 (KSKVGLIQLFHKK) and variants of the
 CC sequence having antifungal activity; and (2) an antifungal peptide
 CC having 6-14 amino acids comprising (a) a core sequence selected from
 CC LIQL, LIQLF, WLQL, LIQLF and WLQLF and (b) one or more cationic amino
 CC acids selected from K, R, H, Orn (ornithine) and Dab (diaminobutyric
 CC acid) at the N and/or C terminus of the core sequence. The new peptides
 CC are used for killing or inhibiting replication of fungi in vitro; and
 CC for treating fungal infections in vivo, in particular infections of
 CC Candida, Aspergillus or Cryptococcus spp., especially C. albicans, C.
 CC krusei, C. lusitanae, C. parapsilosis or C. tropicalis. The peptide
 CC can be administered topically, intravenously, orally or as an aerosol,
 CC optionally together with a non-peptide antifungal agent.

XX Sequence 10 AA;

Query Match 100.0%; Score 57; DB 20; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 KWLQLFHKK 10
 (|||||)
 DB 1 KWLQLFHKK 10

RESULT 17
 AAY00571
 ID AAY00571 standard; Peptide: 10 AA.

XX AC AAY00571;
 XX 07-MAY-1999 (first entry)
 XX Antifungal peptide XMP.364.

XX Antifungal; BPI: bactericidal/permeability increasing protein;
 KW Candida infection.

XX Synthetic.
 XX US5858974-A.
 XX 12-JAN-1999.

XX 21-MAR-1996; 96US-0621259.

XX 21-MAR-1996; 96US-0621259.
 XX 20-JUL-1995; 95US-0504841.

XX (XOMA) XOMA CORP.

XX Fadem MB, Lim E, Little RG;
 XX WPI: 1999-119956/10.

XX Antifungal peptides - comprising part of bactericidal or
 PT permeability-increasing protein sequence or related sequence
 XX Disclosure: Columns 189-190; 132pp; English.

XX New peptides are provided which are based on Domain III (amino acids
 CC 142-169) of human bactericidal/permeability-increasing protein (BPI).
 CC The peptides all have a C-terminal amide. More particularly, the Claims
 CC relate to: (1) a peptide that has an amino acid sequence of human BPI
 CC from position 148 to position 161 (KSKVGLIQLFHKK) and variants of the
 CC sequence having antifungal activity; and (2) an antifungal peptide
 CC having 6-14 amino acids comprising (a) a core sequence selected from
 CC LIQL, LIQLF, WLQL, LIQLF and WLQLF and (b) one or more cationic amino
 CC acids selected from K, R, H, Orn (ornithine) and Dab (diaminobutyric
 CC acid) at the N and/or C terminus of the core sequence. The new peptides
 CC are used for killing or inhibiting replication of fungi in vitro; and
 CC for treating fungal infections in vivo, in particular infections of
 CC Candida, Aspergillus or Cryptococcus spp., especially C. albicans, C.
 CC krusei, C. lusitanae, C. parapsilosis or C. tropicalis. The peptide
 CC can be administered topically, intravenously, orally or as an aerosol,
 CC optionally together with a non-peptide antifungal agent.

XX Sequence 10 AA;

Query Match 100.0%; Score 57; DB 20; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 KWLQLFHKK 10
 (|||||)
 DB 1 KWLQLFHKK 10

RESULT 18
 AAY00572
 ID AAY00572 standard; Peptide: 10 AA.

XX AC AAY00572;

XX 07-MAY-1999 (first entry)

XX Antifungal peptide XMP.365.

XX Antifungal; BPI: bactericidal/permeability increasing protein;
 KW Candida infection.

XX Synthetic.

XX US5858974-A.

XX 12-JAN-1999.

XX 21-MAR-1996; 96US-0621259.

XX 21-MAR-1996; 96US-0621259.
 XX 20-JUL-1995; 95US-0504841.

XX (XOMA) XOMA CORP.

XX Fadem MB, Lim E, Little RG;
 XX WPI: 1999-119956/10.

XX Antifungal peptides - comprising part of bactericidal or
 PT permeability-increasing protein sequence or related sequence
 PS Disclosure: Columns 191-192; 132pp; English.

XX New peptides are provided which are based on Domain III (amino acids
 CC 142-169) of human bactericidal/permeability-increasing protein (BPI).
 CC The peptides all have a C-terminal amide. More particularly, the Claims
 CC relate to: (1) a peptide that has an amino acid sequence of human BPI

CC from position 148 to position 161 (KSKVGMWLIQLFHKK) and variants of the
 CC sequence having antifungal activity; and (2) an antifungal peptide
 CC having 6-14 amino acids comprising (a) a core sequence selected from
 CC LIQL, IQLF, WLQL, LIQLF and WLQLF and (b) one or more cationic amino
 CC acids selected from K, R, H, Orn (ornithine) and Dab (diaminobutyric
 CC acid) at the N and/or C terminus of the core sequence. The new peptides
 CC are used for killing or inhibiting replication of fungi in vitro; and
 CC for treating fungal infections in vivo, in particular infections of
 CC Candida, Aspergillus or Cryptococcus spp., especially C. albicans, C.
 CC krusei, C. lusitanae, C. parapsilosis or C. tropicalis. The peptide
 CC can be administered topically, intravenously, orally or as an aerosol,
 CC optionally together with a non-peptide antifungal agent.

XX Sequence 10 AA;

Query Match 100.0%; Score 57; DB 20; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 KWLQLFHKK 10
 DB 1 KWLQLFHKK 10

RESULT 19
 AAY00573
 ID AAY00573 standard; Peptide: 10 AA.

XX AAY00573;

DT 07-MAY-1999 (first entry)

DE Antifungal peptide XMP.365.

KW Antifungal; WPI: bactericidal/permeability increasing protein;
 KW Candida infection.

OS Synthetic.

PN US5858974-A.

PD 12-JAN-1999.

PF 21-MAR-1996; 96US-0621259.

PR 21-MAR-1996; 96US-0621259.

PR 20-JUL-1995; 95US-0504841.

PA (XOMA) XOMA CORP.

PI Fadem MB, Lim E, Little RG;

XX WPI: 1999-119956/10.

PT Antifungal peptides - comprising part of bactericidal or
 PT permeability-increasing protein sequence or related sequence

PS Disclosure: Columns 191-192; 132pp; English.

XX New peptides are provided which are based on Domain III (amino acids
 CC 142-169) of human bactericidal/permeability-increasing protein (BPI).
 CC The peptides all have a C-terminal amide. More particularly, the Claims
 CC relate to: (1) a peptide that has an amino acid sequence of human BPI
 CC from position 148 to position 161 (KSKVGMWLIQLFHKK) and variants of the
 CC sequence having antifungal activity; and (2) an antifungal peptide
 CC having 6-14 amino acids comprising (a) a core sequence selected from
 CC LIQL, IQLF, WLQL, LIQLF and WLQLF and (b) one or more cationic amino
 CC acids selected from K, R, H, Orn (ornithine) and Dab (diaminobutyric
 CC acid) at the N and/or C terminus of the core sequence. The new peptides
 CC are used for killing or inhibiting replication of fungi in vitro; and
 CC for treating fungal infections in vivo, in particular infections of
 CC Candida, Aspergillus or Cryptococcus spp., especially C. albicans, C.
 CC krusei, C. lusitanae, C. parapsilosis or C. tropicalis. The peptide

CC can be administered topically, intravenously, orally or as an aerosol,
 CC optionally together with a non-peptide antifungal agent.

XX Sequence 10 AA;

Query Match 100.0%; Score 57; DB 20; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 KWLQLFHKK 10
 DB 1 KWLQLFHKK 10

RESULT 20
 AAY00580

ID AAY00580 standard; Peptide: 10 AA.

XX AAY00580;

DT 07-MAY-1999 (first entry)

DE Antifungal peptide XMP.373.

KW Antifungal; BPI: bactericidal/permeability increasing protein;
 KW Candida infection.

OS Synthetic.

PN US5858974-A.

PD 12-JAN-1999.

PF 21-MAR-1996; 96US-0621259.

PR 21-MAR-1996; 96US-0621259.

PR 20-JUL-1995; 95US-0504841.

PA (XOMA) XOMA CORP.

PI Fadem MB, Lim E, Little RG;

XX WPI: 1999-119956/10.

PT Antifungal peptides - comprising part of bactericidal or
 PT permeability-increasing protein sequence or related sequence

PS Disclosure: Columns 197-198; 132pp; English.

XX New peptides are provided which are based on Domain III (amino acids
 CC 142-169) of human bactericidal/permeability-increasing protein (BPI).
 CC The peptides all have a C-terminal amide. More particularly, the Claims
 CC relate to: (1) a peptide that has an amino acid sequence of human BPI
 CC from position 148 to position 161 (KSKVGMWLIQLFHKK) and variants of the
 CC sequence having antifungal activity; and (2) an antifungal peptide
 CC having 6-14 amino acids comprising (a) a core sequence selected from
 CC LIQL, IQLF, WLQL, LIQLF and WLQLF and (b) one or more cationic amino
 CC acids selected from K, R, H, Orn (ornithine) and Dab (diaminobutyric
 CC acid) at the N and/or C terminus of the core sequence. The new peptides
 CC are used for killing or inhibiting replication of fungi in vitro; and
 CC for treating fungal infections in vivo, in particular infections of
 CC Candida, Aspergillus or Cryptococcus spp., especially C. albicans, C.
 CC krusei, C. lusitanae, C. parapsilosis or C. tropicalis. The peptide
 CC can be administered topically, intravenously, orally or as an aerosol,
 CC optionally together with a non-peptide antifungal agent.

XX Sequence 10 AA;

Query Match 100.0%; Score 57; DB 20; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 KWLQLFHKK 10

Db 1 KWLQLFHKK 10

RESULT 21

AAAY00502
ID AAAY00502 standard; Peptide; 10 AA.

AC AAAY00502;

XX 07-MAY-1999 (first entry)

XX Antifungal peptide XMP.293.

XX Antifungal; BPI; bactericidal/permeability increasing protein;
KW Candida infection.

XX Synthetic.

XX US5858974-A.

PN 12-JAN-1999.

XX 21-MAR-1996; 96US-0621259.

XX 21-MAR-1996; 96US-0621259.

PR 20-JUL-1995; 95US-0504841.

XX (XOMA) XOMA CORP.

PA Fadem MB, Lim E, Little RG;

XX WPI; 1999-119956/10.

XX Antifungal peptides - comprising part of bactericidal or
PT permeability-increasing protein sequence or related sequence

XX Disclosure: Columns 143-144; 132pp; English.

XX New peptides are provided which are based on Domain III (amino acids
CC 142-169) of human bactericidal/permeability-increasing protein (BPI).
CC The peptides all have a C-terminal amide. More particularly, the Claims
CC relate to: (1) a peptide that has an amino acid sequence of human BPI
CC from position 148 to position 161 (KSKVGLIQLFHKK) and variants of the
CC sequence having antifungal activity; and (2) an antifungal peptide
CC having 6-14 amino acids comprising (a) a core sequence selected from
CC LIQL, IQLF, WLIOI., LIQLF and WLIOLF and (b) one or more cationic amino
CC acids selected from K, R, H, Orn (ornithine) and Dab (diaminobutyric
CC acid) at the N and/or C terminus of the core sequence. The new peptides
CC are used for killing or inhibiting replication of fungi in vitro; and
CC for treating fungal infections in vivo, in particular infections of
CC Candida, Aspergillus or Cryptococcus spp., especially C. albicans, C.
CC krusei, C. lusitanae, C. parapsilosis or C. tropicalis. The peptide
CC can be administered topically, intravenously, orally or as an aerosol,
CC optionally together with a non-peptide antifungal agent.

XX Sequence 10 AA;

Query Match 100.0%; Score 57; DB 20; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.0016;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KWLQLFHKK 10

Db 1 KWLQLFHKK 10

RESULT 22

AAAY00620
ID AAAY00620 standard; Peptide; 10 AA.

XX AAAY00620;

XX 07-MAY-1999 (first entry)

XX Antifungal peptide XMP.415.

XX Antifungal; BPI; bactericidal/permeability increasing protein;
KW Candida infection.

07 MAY-1999 (first entry)

XX Antifungal peptide XMP.414.

XX Antifungal; BPI; bactericidal/permeability increasing protein;
KW Candida infection.

XX Synthetic.

XX US5858974-A.

PN 12-JAN-1999.

XX 21-MAR-1996; 96US-0621259.

XX 21-MAR-1996; 96US-0621259.

PR 20-JUL-1995; 95US-0504841.

XX (XOMA) XOMA CORP.

PA Fadem MB, Lim E, Little RG;

XX WPI; 1999-119956/10.

XX Antifungal peptides - comprising part of bactericidal or
PT permeability-increasing protein sequence or related sequence

XX Claim 2: Columns 225-226; 132pp; English.

XX New peptides are provided which are based on Domain III (amino acids
CC 142-169) of human bactericidal/permeability-increasing protein (BPI).
CC The peptides all have a C-terminal amide. More particularly, the Claims
CC relate to: (1) a peptide that has an amino acid sequence of human BPI
CC from position 148 to position 161 (KSKVGLIQLFHKK) and variants of the
CC sequence having antifungal activity; and (2) an antifungal peptide
CC having 6-14 amino acids comprising (a) a core sequence selected from
CC LIQL, IQLF, WLIOI., LIQLF and WLIOLF and (b) one or more cationic amino
CC acids selected from K, R, H, Orn (ornithine) and Dab (diaminobutyric
CC acid) at the N and/or C terminus of the core sequence. The new peptides
CC are used for killing or inhibiting replication of fungi in vitro; and
CC for treating fungal infections in vivo, in particular infections of
CC Candida, Aspergillus or Cryptococcus spp., especially C. albicans, C.
CC krusei, C. lusitanae, C. parapsilosis or C. tropicalis. The peptide
CC can be administered topically, intravenously, orally or as an aerosol,
CC optionally together with a non-peptide antifungal agent.

XX Sequence 10 AA;

Query Match 100.0%; Score 57; DB 20; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.0016;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KWLQLFHKK 10

Db 1 KWLQLFHKK 10

RESULT 23

AAAY00621

ID AAAY00621 standard; Peptide; 10 AA.

XX AAAY00621;

XX 07-MAY-1999 (first entry)

XX Antifungal peptide XMP.415.

XX Antifungal; BPI; bactericidal/permeability increasing protein;
KW Candida infection.

XX Synthetic.

XX US5858974-A.

XX 12-JAN-1999.
 XX 21-MAR-1996; 96US-0621259.
 XX 21-MAR-1996; 96US-0621259.
 XX 20-JUL-1995; 95US-0504841.
 XX (XOMA) XOMA CORP.

PI Fadem MB, Lim E, Little RG;
 XX WPI; 1999-119956/10.

XX Antifungal peptides - comprising part of bactericidal or
 PT permeability-increasing protein sequence or related sequence

XX Claim 2; Columns 225-226; 132pp; English.

XX New peptides are provided which are based on Domain III (amino acids
 CC 142-169) of human bactericidal/permeability-increasing protein (BPI).
 CC The peptides all have a C-terminal amide. More particularly, the Claims
 CC relate to: (1) a peptide that has an amino acid sequence of human BPI
 CC from position 148 to position 161 (KSKVGWLIQLFHHK) and variants of the
 CC sequence having antifungal activity; and (2) an antifungal peptide
 CC having 6-14 amino acids comprising (a) a core sequence selected from
 CC LIQL, IQLF, WLIQL, LIQLF and WLIQLF and (b) one or more cationic amino
 CC acids selected from K, R, H, Orn (ornithine) and Dab (diaminobutyric
 CC acid) at the N and/or C terminus of the core sequence. The new peptides
 CC are used for killing or inhibiting replication of fungi in vitro; and
 CC for treating fungal infections in vivo, in particular infections of
 CC Candida, Aspergillus or Cryptococcus spp., especially C. albicans, C.
 CC krusei, C. lusitanae, C. parapsilosis or C. tropicalis. The peptide
 CC can be administered topically, intravenously, orally or as an aerosol,
 CC optionally together with a non-peptide antifungal agent.

XX Sequence 10 AA;

Query Match 100.0%; Score 57; DB 20; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHHK 10
 IIIII IIII
 DB 1 KWLQLFHHK 10

RESULT 24

AAAY00622
 ID AAY00622 standard; Peptide; 10 AA.

XX AC AAY00622;

XX 07-MAY-1999 (first entry)

XX Antifungal peptide XMP.416.

XX Antifungal; BPI; bactericidal/permeability increasing protein;
 KW Candida infection.

XX Synthetic.

XX US5858974-A.

XX 12-JAN-1999.

XX 21-MAR-1996; 96US-0621259.

XX 21-MAR-1996; 96US-0621259.

XX 20-JUL-1995; 95US-0504841.

XX (XOMA) XOMA CORP.

XX

PI Fadem MB, Lim E, Little RG;

XX WPI; 1999-119956/10.

XX Antifungal peptides - comprising part of bactericidal or
 PT permeability-increasing protein sequence or related sequence

XX Claim 2; Columns 227-228; 132pp; English.

XX New peptides are provided which are based on Domain III (amino acids
 CC 142-169) of human bactericidal/permeability-increasing protein (BPI).
 CC The peptides all have a C-terminal amide. More particularly, the Claims
 CC relate to: (1) a peptide that has an amino acid sequence of human BPI
 CC from position 148 to position 161 (KSKVGWLIQLFHHK) and variants of the
 CC sequence having antifungal activity; and (2) an antifungal peptide
 CC having 6-14 amino acids comprising (a) a core sequence selected from
 CC LIQL, IQLF, WLIQL, LIQLF and WLIQLF and (b) one or more cationic amino
 CC acids selected from K, R, H, Orn (ornithine) and Dab (diaminobutyric
 CC acid) at the N and/or C terminus of the core sequence. The new peptides
 CC are used for killing or inhibiting replication of fungi in vitro; and
 CC for treating fungal infections in vivo, in particular infections of
 CC Candida, Aspergillus or Cryptococcus spp., especially C. albicans, C.
 CC krusei, C. lusitanae, C. parapsilosis or C. tropicalis. The peptide
 CC can be administered topically, intravenously, orally or as an aerosol,
 CC optionally together with a non-peptide antifungal agent.

XX Sequence 10 AA;

Query Match 100.0%; Score 57; DB 20; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHHK 10
 IIIII IIII
 DB 1 KWLQLFHHK 10

RESULT 25

AAAY00623
 ID AAY00623 standard; Peptide; 10 AA.

XX AC AAY00623;

XX 07-MAY-1999 (first entry)

XX Antifungal peptide XMP.417.

XX Antifungal; BPI; bactericidal/permeability increasing protein;
 KW Candida infection.

XX Synthetic.

XX US5858974-A.

XX 12-JAN-1999.

XX 21-MAR-1996; 96US-0621259.

XX 21-MAR-1996; 96US-0621259.

XX 20-JUL-1995; 95US-0504841.

XX (XOMA) XOMA CORP.

XX Fadem MB, Lim E, Little RG;

XX WPI; 1999-119956/10.

XX Antifungal peptides - comprising part of bactericidal or
 PT permeability-increasing protein sequence or related sequence

XX Claim 2; Columns 227-228; 132pp; English.

XX New peptides are provided which are based on Domain III (amino acids

```
CC for treating fungal infections in vivo, in particular infections of
CC Candida, Aspergillus or Cryptococcus spp., especially C. albicans, C.
CC krusei, C. lusitanae, C. parapsilosis or C. tropicalis. The peptide
CC can be administered topically, intravenously, orally or as an aerosol,
CC optionally together with a non-peptide antifungal agent.
XX
SQ Sequence 10 AA:

Query Match      100.0%: Score 57: cB ZU: Length 10;
Best Local Similarity 100.0%: Pred. No. 0.0016;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps

QY ? KWLIGLFHKK 10
    IIII:IIIII
DB   1 KWLIGLFHKK 10

RESULT 27
AAB31779
ID AAB31779 standard: peptide: 10 AA.
AC
AA B31779:
XX
3C-APR-2001 (first entry)
Bactericidal/permeability-increasing protein (BPI) derived peptide.
XX
DE
KW Bactericidal/increasing-protein: BPI; antimicrobial;
KW ATP synthase; F1/F0 ATPase; pathogenic organism; microbial infection;
KW insecticide; herbicide; cancer; neoplastic disease; autoimmune disease
KW wart.
XX
OS Synthetic.
XX
PH Key Location/Qualifiers
FT Modified-site 10 /note= "amidated residue"
FT FT
PN WO200104347-A1.
PD 18-JAN-2001.
XX
XX 36-APR-2000; 2000WO-US09137.
XX
XX 12-JUL-1999; 99US-0143373.
XX {XOMA } XOMA TECHNOLOGY LTD.
XX Little KG, Abrahamson S;
XX WP: 2001-159408/16.
XX
XX Identifying antimicrobial compounds, useful for treating microbial
XX infections, cancer or other neoplastic diseases such as lymphomas lung
XX cancer and autoimmune diseases, comprises targeting the function of
XX adenosine triphosphate synthase,
XX
XX Example 2; Page 58; 6pp; English.
XX
CC The present sequence represents a peptide which is derived from a
CC bactericidal/increasing-protein (BPI). The peptide is
CC designated rBPi21 XMP.365. Peptides derived from BPI are potential
CC candidate antimicrobial compounds. They act by a unique mechanism
CC involving inhibition of the ATP synthase F1/F0 ATPase. The specification
CC describes a method for identifying such peptides. The method is used to
CC identify antimicrobial compounds that are active against pathogenic
CC organisms that rely on ATP synthase for aerobic metabolism. The
CC identified antimicrobial compounds are useful for treating microbial
CC infections. The methods are useful for identifying new insecticidal
CC agents or new herbicidal agents that are active against plant organisms.
CC The antimicrobial compounds are also suitable for in vitro use e.g. as
CC a preservative or decontaminant, and for sterilisation. They are also
CC useful for killing or inhibiting growth of insects or plants. BPI deriv
```

CC protein products in association with appropriate targeting agents are
 CC useful as antiproliferative or cytotoxic agents that can be used to
 CC treat conditions such as cancer or other neoplastic diseases (such as
 CC lymphomas, lung cancer, gastrointestinal cancer, skin cancer), autoimmune
 CC disease (rheumatoid arthritis, psoriasis, endometriosis, warts), etc...

XX Sequence 10 AA:
 Query Match 100.0%; Score 57; DB 22; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
 DB 1 KWLQLFHKK 10

RESULT 28
 AAB31781
 ID AAB31781 standard; peptide: 10 AA.

AC AAB31781;

DT 30-APR-2001 (first entry)

XX Bactericidal/permeability-increasing protein (BPI) derived peptide.

XX Bactericidal/increasing-increasing protein; BPI; antimicrobial;
 KW ATP synthase; F1/F0 ATPase; pathogenic organism; microbial infection;
 KW insecticide; herbicide; cancer; neoplastic disease; autoimmune disease;
 KW wart.

XX Synthetic.

XX Key Location/Qualifiers

FT Misc-difference 1..10 /note= "D-form residues"

FT Modified-site 1

FT /note= "8-amino-octanyl group at N-terminus"

FT Modified-site 10

FT /note= "amidated residue"

XX WO200104347-A1.

XX 18-JAN-2001.

XX 06-APR-2000; 2000WO-US09137.

XX 12-JUL-1999; 99US-0143373.

XX (XOMA) XOMA TECHNOLOGY LTD.

XX Little RG, Abrahamson S;

XX WPI: 2001-159408/16.

XX Identifying antimicrobial compounds, useful for treating microbial
 PT infections, cancer or other neoplastic diseases such as lymphomas lung
 PT cancer and autoimmune diseases, comprises targeting the function of
 PT adenosine triphosphate synthase,

XX Example 5; Page 59; 61pp; English.

XX The present sequence represents a peptide which is derived from a
 CC bactericidal/increasing-increasing protein (BPI). The peptide is
 CC designated XMP.416. Peptides derived from BPI are potential candidate
 CC antimicrobial compounds. They act by a unique mechanism involving
 CC inhibition of the ATP synthase F1/F0 ATPase. The specification describes
 CC a method for identifying such peptides. The method is used to identify
 CC antimicrobial compounds that are active against pathogenic organisms that
 CC rely on ATP synthase for aerobic metabolism. The identified antimicrobial
 CC compounds are useful for treating microbial infections. The methods are
 CC useful for identifying new insecticidal agents or new herbicidal agents

CC that are active against plant organisms. The antimicrobial compounds are
 CC also suitable for in vitro use e.g. as a preservative or decontaminant.
 CC and for sterilisation. They are also useful for killing or inhibiting
 CC growth of insects or plants. BPI derived protein products in association
 CC with appropriate targeting agents are useful as antiproliferative or
 CC cytotoxic agents that can be used to treat conditions such as cancer or
 CC other neoplastic diseases (such as lymphomas, lung cancer,
 CC gastrointestinal cancer, skin cancer), autoimmune disease (rheumatoid
 CC arthritis, psoriasis, endometriosis, warts), etc...

XX Sequence 10 AA:

Query Match 100.0%; Score 57; DB 22; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
 DB 1 KWLQLFHKK 10

RESULT 29

AAB61592
 ID AAB61592 standard; peptide: 10 AA.

XX AAB61592;

XX 08-MAY-2001 (first entry)

XX Human BPI protein derived peptide XMP.365.

XX BPI protein; adenosine triphosphatase; ATPase; gastric acid; human;

XX H+/K+ ATPase; bactericidal permeability increasing protein; ulcer;

XX gastrointestinal; inflammatory disease; gastroesophageal reflux disease;

XX esophagitis; gastritis; duodenitis; gastric cancer; gastrinoma; GERD;

XX cyostatic.

XX Homo sapiens.

XX Key Location/Qualifiers

FT Misc-difference 1..10 /note= "D-form residues"

FT Modified-site 10

FT /note= "C-terminal amide"

XX WO200103724-A1.

XX 18-JAN-2001.

XX 06-APR-2000; 2000WO-US09125.

XX 12-JUL-1999; 99US-0143374.

XX (XOMA) XOMA TECHNOLOGY LTD.

XX Little RG, Abrahamson S;

XX WPI: 2001-136258/14.

XX Inhibiting H+/K+ adenosine triphosphatase activity, including gastric
 PT acid secretion for treating gastric ulcer and gastrointestinal
 PT inflammatory disease, using a bactericidal permeability increasing
 PT protein product -

XX Disclosure; Page 34; 40pp; English.

XX The invention relates to inhibiting H+/K+ adenosine triphosphatase
 CC (ATPase) activity, including inhibiting gastric acid secretion in a
 CC mammal suffering from a condition exacerbated by acid secretion involving
 CC H+/K+ ATPase activity. The method involves administering bactericidal
 CC permeability increasing (BPI) protein product to the mammal. The BPI
 CC protein is useful for treating gastrointestinal ulcer disease and
 CC gastrointestinal inflammatory disease or others condition exacerbated by

CC gastric acidity such as gastroesophageal reflux disease (GERD), gastric
 CC cancers, esophagitis, gastritis, duodenitis, gastrinomas, Zollinger-
 CC Ellison syndrome, acute upper gastrointestinal bleeding, gastric ulcers,
 CC duodenal ulcers, stress ulcers, ingestion of corrosive chemicals,
 CC aspiration pneumonia, chronic or excessive alcohol consumption, patients
 CC in intensive care situations, or pre-and/or postoperatively to prevent
 CC aspiration of gastric acid. The present sequence represents a peptide
 CC fragment derived from the human BPI protein.
 XX
 SQ Sequence 10 AA:
 Query Match 100.0%; Score 57; DB 22; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0015;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 KWLQLFHKK 10
 Db 1 KWLQLFHKK 10
 RESULT 30
 ID AAB61894 standard; peptide; 10 AA.
 XX AAB61894;
 DT 08-MAY-2001 (first entry)
 XX Human BPI protein derived peptide XMP.416.
 DE BPI protein; adenosine triphosphatase; ATPase; gastric acid; human;
 KW H+/K+ ATPase; bactericidal permeability increasing protein; ulcer;
 KW gastrointestinal; inflammatory disease; gastroesophageal reflux disease;
 KW esophagitis; gastritis; duodenitis; gastric cancer; gastrinoma; GERD;
 KW cytostatic.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT Misc-difference 1..10
 FT /note= "D-form residues"
 FT Modified-site 1
 FT /note= "8-amino-octanyl group: NH2-(CH2)7-CO at
 FT N-terminus"
 FT Modified-site 10
 FT /note= "C-terminal amide"
 XX
 PN W0200103724-A1.
 XX
 PD 18-JAN-2001.
 XX
 PF 06-APR-2000; 2000WO-US09125.
 XX
 PR 12-JUL-1999; 99US-0143374.
 XX
 PA (XOMA) XOMA TECHNOLOGY LTD.
 XX
 PI Little RG, Abrahamson S;
 XX
 XX WPI: 2001-138258/14.
 XX
 PT Inhibiting H+/K+ adenosine triphosphatase activity, including gastric
 PT acid secretion for treating gastric ulcer and gastrointestinal
 PT inflammatory disease, using a bactericidal permeability increasing
 PT protein product -
 XX
 PS Claim 6; Page 35; 40pp; English.
 XX
 CC The invention relates to inhibiting H+/K+ adenosine triphosphatase
 CC (ATPase) activity, including inhibiting gastric acid secretion in a
 CC mammal suffering from a condition exacerbated by acid secretion involving
 CC H+/K+ ATPase activity. The method involves administering bactericidal
 CC permeability increasing (BPI) protein product to the mammal. The BPI

CC protein is useful for treating gastrointestinal ulcer disease and
 CC gastrointestinal inflammatory disease or others condition exacerbated by
 CC gastric acidity such as gastroesophageal reflux disease (GERD), gastric
 CC cancers, esophagitis, gastritis, duodenitis, gastrinomas, Zollinger-
 CC Ellison syndrome, acute upper gastrointestinal bleeding, gastric ulcers,
 CC duodenal ulcers, stress ulcers, ingestion of corrosive chemicals,
 CC aspiration pneumonia, chronic or excessive alcohol consumption, patients
 CC in intensive care situations, or pre-and/or postoperatively to prevent
 CC aspiration of gastric acid. The present sequence represents a peptide
 CC fragment derived from the human BPI protein, used to inhibit H+/K+
 CC ATPase activity.
 XX
 SQ Sequence 10 AA:
 Query Match 100.0%; Score 57; DB 22; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0015;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 KWLQLFHKK 10
 Db 1 KWLQLFHKK 10
 RESULT 31
 ID AAB61914 standard; peptide; 10 AA.
 XX AAB61914;
 DT 08-MAY-2001 (first entry)
 XX Human BPI protein derived peptide XMP.365.
 DE BPI: antibacterial; antifungal; antimicrobial; dye; infection; human;
 KW bactericidal permeability increasing protein.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT Misc-difference 1..10
 FT /note= "D-form residues"
 FT Modified-site 1
 FT /note= "8-amino-octanyl group: NH2-(CH2)7-CO at
 FT N-terminus"
 FT Modified-site 10
 FT /note= "C-terminal amide"
 XX
 PN W0200104346-A1.
 XX
 PD 18-JAN-2001.
 XX
 PF 06-APR-2000; 2000WO-US09116.
 XX
 PR 12-JUL-1999; 99US-0143290.
 XX
 PA (XOMA) XOMA TECHNOLOGY LTD.
 XX
 PI Little RG;
 XX
 XX WPI: 2001-138363/14.
 XX
 PT Method of identifying antimicrobial compounds such as anti-fungal and
 PT anti-bacterial compounds involves detecting metabolic activity in
 PT presence and absence of test compound using metabolic
 PT oxidation-reduction indicator dye -
 XX
 PS Example 2; Page 47; 49pp; English.
 XX
 CC The invention relates to a method for identifying an antimicrobial
 CC compound that involves contacting a microbial cell with a metabolic
 CC activity oxidation-reduction indicator dye in presence and absence of
 CC test compound and detecting apparent increase in metabolic activity in
 CC presence of compound relative to metabolic activity in absence of
 CC compound despite onset of loss or reduction of cell viability. The method
 CC is used for identifying anti-microbial, anti-fungal and anti-bacterial
 CC compounds. The identified anti-microbial compounds are used for treatment
 CC of microbial infection especially in mammals such as humans, farm
 CC animals, companion animals and/or laboratory animals. The compounds may

CC be used for in vitro use as a preservative or decontaminant for fluids or
 CC surfaces, or to sterilize medical equipment or ex vivo or in situ for
 CC prosthetic joints or intravenous lines or catheters. The compounds are
 CC also useful for treatment of infection in plants. Sequences AAB61914-17
 CC represent peptide derivatives of the human bactericidal permeability
 CC increasing (BPI) protein. The BPI-derived peptides have antibacterial
 CC activities and can be used to exemplify the effect of the compounds along
 CC with the dye on bacteria in the course of the invention.

XX Sequence 10 AA;

Query Match 100.0%; Score 57; DB 22; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KWLIOLFHKK 10
 Db 1 KWLIOLFHKK 10

RESULT 32

AAB61916
 ID AAB61916 standard; peptide; 10 AA.

XX

AC AAB61916;

XX

DT 08-MAY-2001 (first entry)

XX

DE Human BPI protein derived peptide XMP.476.

XX

XX BPI: antibacterial; antifungal; antimicrobial; dye; infection; human;

KW bactericidal permeability increasing protein.

XX

OS Homo sapiens.

XX

EH Key Location/Qualifiers

FT Misc-difference 1..10

FT /note= "D-form residues"

FT Modified-site 1

FT /note= "g-amino-octanyl group; NH2-(CH2)7-COO at N-terminus"

FT Modified-site 10

FT /note= "C-terminal amide"

XX

PN WO200104346-A1.

XX

PD 18-JAN-2001.

XX

PF 06-APR-2000; 2000WO-US09116.

XX

PR 12-JUL-1999; 99US-0143290.

XX

PA (XOMA) XOMA TECHNOLOGY LTD.

XX

PI Little RG;

XX

DR WPI; 2001-138363/14.

XX

XX Method of identifying antimicrobial compounds such as anti-fungal and

PT anti-bacterial compounds involves detecting metabolic activity in

PT presence and absence of test compound using metabolic

PT oxidation-reduction indicator dye -

XX

PS Disclosure; Page 48; 49pp; English.

XX

XX The invention relates to a method for identifying an antimicrobial

CC compound that involves contacting a microbial cell with a metabolic

CC activity oxidation-reduction indicator dye in presence and absence of

CC test compound and detecting apparent increase in metabolic activity in

CC presence of compound relative to metabolic activity in absence of

CC compound despite onset of loss or reduction of cell viability. The method

CC is used for identifying anti-microbial, anti-fungal and anti-bacterial

CC compounds. The identified anti-microbial compounds are used for treatment

CC of microbial infection especially in mammals such as humans, farm
 CC animals, companion animals and/or laboratory animals. The compounds may
 CC be used for in vitro use as a preservative or decontaminant for fluids or
 CC surfaces, or to sterilize medical equipment or ex vivo or in situ for
 CC prosthetic joints or intravenous lines or catheters. The compounds are
 CC also useful for treatment of infection in plants. Sequences AAB61914-17
 CC represent peptide derivatives of the human bactericidal permeability
 CC increasing (BPI) protein. The BPI-derived peptides have antibacterial
 CC activities and can be used to exemplify the effect of the compounds along
 CC with the dye on bacteria in the course of the invention.

XX Sequence 10 AA;

Query Match 100.0%; Score 57; DB 22; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KWLIOLFHKK 10
 Db 1 KWLIOLFHKK 10

RESULT 33

AAB61919

ID AAB61919 standard; peptide; 10 AA.

XX

AC AAB61919;

XX

DT 08-MAY-2001 (first entry)

XX

DE Human BPI protein derived peptide XMP.365.

XX

XX BPI: antifungal; fungal; mitochondrial; ATP synthase; Fl/F0 ATPase;

KW bactericidal permeability increasing protein; preservative;

XX

OS Homo sapiens.

XX

EH Key Location/Qualifiers

FT Misc-difference 1..10

FT /note= "D-form residues"

FT Modified-site 1

FT /note= "C-terminal amide"

XX

PN WO200104348-A1.

XX

PD 18-JAN-2001.

XX

PF 06-APR-2000; 2000WO-US09252.

XX

PR 12-JUL-1999; 99US-0143372.

XX

PA (XOMA) XOMA TECHNOLOGY LTD.

XX

PI Little RG; Abrahamson S;

XX

DR WPI; 2001-138364/14.

XX

XX Identifying antifungal compounds by targeting the function of fungal

CC mitochondrial ATP synthase which are useful for treating fungal

CC infections and as preservative or decontaminant for fluids or surfaces

CC

PS Disclosure; Page 55; 58pp; English.

XX

XX The invention relates to identifying candidate antifungal compounds by

CC targeting the function of fungal mitochondrial ATP synthase Fl/F0 ATPase

CC (FMS). The identified antifungal compounds (bactericidal permeability

CC increasing protein (BPI)-related products) are useful for treating fungal

CC infections in animals and plants. They are also suitable for in vitro use

CC e.g. as a preservative or decontaminant for fluids or surfaces, or use to

CC sterilize surgical or other medical equipment or implantable devices,

CC either ex vivo or in situ, including prosthetic joints or indwelling

CC invasive devices such as intravenous lines or catheters which are often

CC foci of infection, or use in the preparation of growth media for non-

CC fungal cells. The present sequence represents a human BPI protein derived peptide.

XX
SQ Sequence 10 AA:

Query Match 100.0%; Score 57; DB 22; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0016;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
IIIIIIII
DB 1 KWLQLFHKK 10

RESULT 34

AAB61921
ID AAB61921 standard; peptide: 10 AA.

XX AC

XX AAB61921:
DT 08-MAY-2001 (first entry)

XX DE Human BPI protein derived peptide XMP-416.

XX KW BPI: antifungal; fungal; mitochondrial; ATP synthase; Fl/F0 ATPase;
KW FMAS; bactericidal permeability increasing protein; preservative;
KW decontaminant; sterilisation; human.
XX OS Homo sapiens.

XX FH Key Location/Qualifiers

FT Misc-difference 1..10

FT /note= "D-form residues"

FT Modified-site 1

FT /note= "6-amino-octanoyl group; NH2-(CH2)7-CO at N-terminus"

FT Modified-site 10

FT /note= "C-terminal amide"

XX PN WO200104348-A1.

XX PD 18-JAN-2001.

XX PF 06-APR-2000; 2000WO-US09252.

XX PR 12-JUL-1999; 99US-0143372.

XX PA (XOMA) XOMA TECHNOLOGY LTD.

XX PI Little RG, Abrahamson S;

XX WPI: 2001-138364/14.

XX PT Identifying antifungal compounds by targeting the function of fungal mitochondrial ATP synthase which are useful for treating fungal infections and as preservative or decontaminant for fluids or surfaces

XX PS Disclosure; Page 56; 58pp; English.

XX CC The invention relates to identifying candidate antifungal compounds by targeting the function of fungal mitochondrial ATP synthase Fl/F0 ATPase (FMAS). The identified antifungal compounds (bactericidal permeability increasing protein (BPI)-related products) are useful for treating fungal infections in animals and plants. They are also suitable for in vitro use e.g. as a preservative or decontaminant for fluids or surfaces, or use to sterilize surgical or other medical equipment or implantable devices, either ex vivo or in situ, including prosthetic joints or indwelling invasive devices such as intravenous lines or catheters which are often foci of infection, or use in the preparation of growth media for non-fungal cells. The present sequence represents a human BPI protein derived peptide.

SQ Sequence 10 AA:

Query Match 100.0%; Score 57; DB 22; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0016;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
IIIIIIII
DB 1 KWLQLFHKK 10

RESULT 35

AAB68701
ID AAB68701 standard; peptide: 10 AA.

XX AC AAB68701:

XX DT 12-APR-2001 (first entry)

XX DE Peptide-based construct XMP-365.

XX KW Human; antifungal; bactericidal; fungal infection; microbial infection;
KW bactericidal/permeability-increasing protein; BPI.
XX OS Homo sapiens.

XX PN WO200100671-A1.

XX PD 04-JAN-2001.

XX PF 23-JUN-2000; 2000WO-US17383.

XX PR 25-JUN-1999; 99US-0344541.

XX PA (XOMA) XOMA TECHNOLOGY LTD.

XX PI Little RG, Lin J, Gikonyo JGK;

XX WPI: 2001-122999/13.

XX PT Derivatized compounds are peptide-based constructs from Domain III (amino acids 142-169) of bactericidal/permeability-increasing protein, useful as antifungal compounds

XX PS Example 1; Page 68; 106pp; English.

XX CC The present sequence is a peptide-based construct derived from or based on subsequences identified and selected from Domain III of bactericidal/permeability-increasing protein (BPI). It may be used to treat fungal infections, and for inhibiting growth and replication of fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma, Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus, Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium, Trichophyton, Trichosporon, Microsporium, Epidermophyton, Scytalidium, Malassezia, Actinomyces, Sporothrix or Penicillium. It is also useful for treating microbial infections (especially from gram-positive bacteria).

SQ Sequence 10 AA:

Query Match 100.0%; Score 57; DB 22; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0016;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
IIIIIIII
DB 1 KWLQLFHKK 10

RESULT 36

AAB68702
ID AAB68702 standard; peptide: 10 AA.

XX

```

AC AAB68702;
XX
XX 12-APR-2001 (first entry)
XX
XX Peptide-based construct XMP-366.
XX
XX Human: antifungal; bactericidal; fungal infection; microbial infection;
KW bactericidal/permeability-increasing protein; BPI.
XX
XX Homo sapiens.
XX
XX WO200100671-A1.
XX
XX 04-JAN-2001.
XX
XX 23-JUN-2000; 2000WO-US17383.
XX
XX 25-JUN-1999; 99US-0344541.
XX
XX (XOMA ) XOMA TECHNOLOGY LTD.
XX
XX Little RG, Lin J, Gikonyo JGK;
XX
XX WPI: 2001-122999/13.
XX
XX Derivatized compounds are peptide-based constructs from Domain III
XX (amino acids 142-169) of bactericidal/permeability-increasing protein.
XX useful as antifungal compounds.
XX
XX Example 1; Page 69; 106pp; English.
XX
XX The present sequence is a peptide-based construct derived from or based
XX on subsequences identified and selected from Domain III of
XX bactericidal/permeability-increasing protein (BPI). It may be used
XX to treat fungal infections, and for inhibiting growth and replication of
XX fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma,
XX Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus,
XX Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium,
XX Trichophyton, Trichosporon, Microsporium, Epidermophyton, Scytalidium,
XX Malassezia, Actinomyces, Sporothrix or Penicillium. It is also
XX useful for treating microbial infections (especially from gram-positive
XX bacteria).
XX
XX Sequence 10 AA:
XX
XX Query Match. 100.0%; Score 57; DB 22; Length 10;
XX Best Local Similarity 100.0%; Pred. No. 0.0016;
XX Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1 KWLQLFHHK 10
XX
XX DB
XX
XX RESULT 37
XX AAB68703
XX ID AAB68703 standard; Peptide; 10 AA.
XX
XX AC AAB68703;
XX
XX 12-APR-2001 (first entry)
XX
XX Peptide-based construct XMP-416.
XX
XX Human: antifungal; bactericidal; fungal infection; microbial infection;
KW bactericidal/permeability-increasing protein; BPI.
XX
XX Homo sapiens.
XX
XX WO200100671-A1.
XX
XX 04-JAN-2001.
XX

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IF 23-JUN-2000; 2000WO-US17383.
XX
XX 25-JUN-1999; 99US-0344541.
XX
XX (XOMA ) XOMA TECHNOLOGY LTD.
XX
XX Little RG, Lin J, Gikonyo JGK;
XX
XX WPI: 2001-122999/13.
XX
XX Derivatized compounds are peptide-based constructs from Domain III
XX (amino acids 142-169) of bactericidal/permeability-increasing protein.
XX useful as antifungal compounds.
XX
XX Example 1; Page 69; 106pp; English.
XX
XX The present sequence is a peptide-based construct derived from or based
XX on subsequences identified and selected from Domain III of
XX bactericidal/permeability-increasing protein (BPI). It may be used
XX to treat fungal infections, and for inhibiting growth and replication of
XX fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma,
XX Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus,
XX Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium,
XX Trichophyton, Trichosporon, Microsporium, Epidermophyton, Scytalidium,
XX Malassezia, Actinomyces, Sporothrix or Penicillium. It is also
XX useful for treating microbial infections (especially from gram-positive
XX bacteria).
XX
XX Sequence 10 AA:
XX
XX Query Match. 100.0%; Score 57; DB 22; Length 10;
XX Best Local Similarity 100.0%; Pred. No. 0.0016;
XX Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1 KWLQLFHHK 10
XX
XX DB 1 KWLQLFHHK 10
XX
XX
XX RESULT 38
XX AAB68711
XX ID AAB68711 standard; Peptide; 10 AA.
XX
XX AC AAB68711;
XX
XX 12-APR-2001 (first entry)
XX
XX Peptide-based construct XMP-488.
XX
XX Human: antifungal; bactericidal; fungal infection; microbial infection;
KW bactericidal/permeability-increasing protein; BPI.
XX
XX Homo sapiens.
XX
XX WO200100671-A1.
XX
XX 04-JAN-2001.
XX
XX 23-JUN-2000; 2000WO-US17383.
XX
XX 25-JUN-1999; 99US-0344541.
XX
XX (XOMA ) XOMA TECHNOLOGY LTD.
XX
XX Little RG, Lin J, Gikonyo JGK;
XX
XX WPI: 2001-122999/13.
XX
XX Derivatized compounds are peptide-based constructs from Domain III
XX (amino acids 142-169) of bactericidal/permeability-increasing protein.
XX useful as antifungal compounds.
XX
XX Claim 5; Page 74; 106pp; English.
XX

```

XX The present sequence is a peptide-based construct derived from or based
 CC on subsequences identified and selected from Domain III of
 CC bactericidal/permeability-increasing protein (BPI). It may be used
 CC to treat fungal infections, and for inhibiting growth and replication of
 CC fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma,
 CC Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus,
 CC Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium,
 CC Trichophyton, Trichosporon, Microsporum, Epidermophyton, Scytalidium,
 CC Malassezia, Actinomyces, Sporothrix or Penicillium. It is also
 CC useful for treating microbial infections (especially from gram-positive
 CC bacteria).

XX Sequence 10 AA:
 SQ

Query Match 100.0%; Score 57; DB 22; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
 DB 1 KWLQLFHKK 10
 |||||

RESULT 39
 AAB68712
 ID AAB68712 standard; Peptide: 10 AA.
 XX
 AC AAB68712;
 XX
 DT 12-APR-2001 (first entry)
 XX
 DE Peptide-based construct XMP-469.
 XX
 KW Human; antifungal; bactericidal; fungal infection; microbial infection;
 KW bactericidal/permeability-increasing protein; BPI.
 XX Homo sapiens.
 OS
 PN WO200100671-A1.
 XX
 PD 04-JAN-2001.
 XX
 PF 23-JUN-2000; 2000WO-US17383.
 XX
 PR 25-JUN-1999; 99US-0344541.
 XX
 PA (XOMA) XOMA TECHNOLOGY LTD.
 XX
 P: Little RG, Lin J, Gikonyo JGK;
 XX WPI: 2001-122599/13.
 XX
 DR Derivatized compounds are peptide-based constructs from Domain III
 XX (amino acids 142-169) of bactericidal/permeability-increasing protein,
 XX useful as antifungal compounds -
 XX
 PS Claim 5; Page 74; 106pp; English.
 XX
 CC The present sequence is a peptide-based construct derived from or based
 CC on subsequences identified and selected from Domain III of
 CC bactericidal/permeability-increasing protein (BPI). It may be used
 CC to treat fungal infections, and for inhibiting growth and replication of
 CC fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma,
 CC Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus,
 CC Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium,
 CC Trichophyton, Trichosporon, Microsporum, Epidermophyton, Scytalidium,
 CC Malassezia, Actinomyces, Sporothrix or Penicillium. It is also
 CC useful for treating microbial infections (especially from gram-positive
 CC bacteria).

XX Sequence 10 AA:
 SQ

Query Match 100.0%; Score 57; DB 22; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
 DB 1 KWLQLFHKK 10
 |||||

RESULT 41
 AAB68714
 ID AAB68714 standard; Peptide: 10 AA.
 XX
 AC AAB68714;
 XX

Query Match 100.0%; Score 57; DB 22; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
 DB 1 KWLQLFHKK 10
 |||||

RESULT 40
 AAB68713
 ID AAB68713 standard; Peptide: 10 AA.
 XX
 AC AAB68713;
 XX
 DT 12-APR-2001 (first entry)
 XX
 DE Peptide-based construct XMP-492.
 XX
 KW Human; antifungal; bactericidal; fungal infection; microbial infection;
 KW bactericidal/permeability-increasing protein; BPI.
 XX Homo sapiens.
 OS
 PN WO200100671-A1.
 XX
 PD 04-JAN-2001.
 XX
 PF 23-JUN-2000; 2000WO-US17383.
 XX
 PR 25-JUN-1999; 99US-0344541.
 XX
 PA (XOMA) XOMA TECHNOLOGY LTD.
 XX
 P: Little RG, Lin J, Gikonyo JGK;
 XX WPI: 2001-122599/13.
 XX
 DR Derivatized compounds are peptide-based constructs from Domain III
 XX (amino acids 142-169) of bactericidal/permeability-increasing protein,
 XX useful as antifungal compounds -
 XX
 PS Claim 5; Page 75; 106pp; English.
 XX
 CC The present sequence is a peptide-based construct derived from or based
 CC on subsequences identified and selected from Domain III of
 CC bactericidal/permeability-increasing protein (BPI). It may be used
 CC to treat fungal infections, and for inhibiting growth and replication of
 CC fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma,
 CC Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus,
 CC Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium,
 CC Trichophyton, Trichosporon, Microsporum, Epidermophyton, Scytalidium,
 CC Malassezia, Actinomyces, Sporothrix or Penicillium. It is also
 CC useful for treating microbial infections (especially from gram-positive
 CC bacteria).

XX Sequence 10 AA:
 SQ

Query Match 100.0%; Score 57; DB 22; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
 DB 1 KWLQLFHKK 10
 |||||

RESULT 41
 AAB68714
 ID AAB68714 standard; Peptide: 10 AA.
 XX
 AC AAB68714;
 XX

DT	12-APR-2001	{first entry}
DE	XX	
DE	XX	
DE	XX	Peptide-based construct XMP-493.
KW	Human; antifungal; bactericidal; fungal infection; microbial infection;	
KW	bactericidal/permeability-increasing protein; BPI.	
OS	Homo sapiens.	
PN	WO200100671-A1.	
XX	XX	
PD	04-JAN-2001.	
XX	XX	
PF	23-JUN-2000; 2000WO-US17383.	
XX	XX	
PR	25-JUN-1999; 99US-0344541.	
XX	XX	
PA	(XOMA) XOMA TECHNOLOGY LTD.	
XX	XX	
PI	Little RG, Lin J, Gikonyo JGK;	
XX	XX	
DR	WPI: 2001-122999/13.	
XX	XX	
PS	Derivatized compounds are peptide-based constructs from Domain III	
PT	(amino acids 142-169) of bactericidal/permeability-increasing protein;	
PT	useful as antifungal compounds -	
XX	XX	
PS	Claim 5; Page 75; 106pp; English.	
XX	XX	
CC	The present sequence is a peptide-based construct derived from or based	
CC	on subsequences identified and selected from Domain III or:	
CC	bactericidal/permeability-increasing protein (BPI). It may be used	
CC	to treat fungal infections, and for inhibiting growth and replication of	
CC	fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma,	
CC	Coccidioides, Blastomycetes, Basidiobolus, Candidobolus, Rhizopus,	
CC	Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium,	
CC	Trichophyton, Trichosporon, Microsporium, Epidermophyton, Scytalidium,	
CC	Malassezia, Actinomyces, Sporothrix or penicillium. It is also	
CC	useful for treating microbial infections (especially from gram-positive	
CC	bacteria).	
XX	XX	
SO	Sequence 10 AA:	
Query Match 100.0%; Score 57; DB 22; Length 10;		
Best Local Similarity 100.0%; P-adj. No. 0.0015;		
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps		
QY	1 KWLQLFHKK 10	
DB	1 KWLQLFHKK 10	
RESULT 42		
AA868715	AAB68715 standard; Peptide; 10 AA.	
ID	AAB68715	
XX	XX	
AC	AAB68715;	
XX	XX	
DT	12-APR-2001	{first entry}
DE	XX	
DE	XX	
DE	XX	Peptide-based construct XMP-496.
XX	XX	
KW	Human; antifungal; bactericidal; fungal infection; microbial infection;	
KW	bactericidal/permeability-increasing protein; BPI.	
OS	Homo sapiens.	
XX	XX	
PN	WO200100671-A1.	
XX	XX	
PD	04-JAN-2001.	
XX	XX	
PF	23-JUN-2000; 2000WO-US17383.	
XX	XX	

CC on subsequences identified and selected from Domain III of
 CC bactericidal/permeability-increasing protein (BPI). It may be used
 CC to treat fungal infections, and for inhibiting growth and replication of
 CC fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma,
 CC Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus,
 CC Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium,
 CC Trichophyton, Trichosporon, Microsporium, Epidermophyton, Scytalidium,
 CC Malassezia, Actinomyces, Sporothrix or Penicillium. It is also
 CC useful for treating microbial infections (especially from gram-positive
 CC bacteria).
 XX
 XX
 SQ Sequence 10 AA;
 Query Match 100.0%; Score 57; DB 22; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 KWLQLFHKK 10
 DB 1 KWLQLFHKK 10
 RESULT 44
 AAB68717
 ID AAB68717 standard; Peptide: 10 AA.
 AC
 XX
 AC AAB68717;
 DT 12-APR-2001 (first entry)
 XX
 XX Peptide-based construct XMP-500.
 DE Human; antifungal; bactericidal; fungal infection; microbial infection;
 KW bactericidal/permeability-increasing protein; BPI.
 KW Homo sapiens.
 XX
 OS WO200100671-A1.
 XX
 PN 04-JAN-2001.
 XX
 PD 23-JUN-2000; 2000WO-US17383.
 XX
 PF 25-JUN-1999; 99US-0344541.
 XX
 PR (XOMA) XOMA TECHNOLOGY LTD.
 XX
 PA Little RG, Lin J, Gikonyo JGK;
 PI WPI: 2001-122999/13.
 XX
 XX Derivatized compounds are peptide-based constructs from Domain III
 (amino acids 142-169) of bactericidal/permeability-increasing protein,
 PT useful as antifungal compounds -
 PS Claim 5; Page 77; 106pp; English.
 XX
 XX The present sequence is a peptide-based construct derived from or based
 CC on subsequences identified and selected from Domain III of
 CC bactericidal/permeability-increasing protein (BPI). It may be used
 CC to treat fungal infections, and for inhibiting growth and replication of
 CC fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma,
 CC Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus,
 CC Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium,
 CC Trichophyton, Trichosporon, Microsporium, Epidermophyton, Scytalidium,
 CC Malassezia, Actinomyces, Sporothrix or Penicillium. It is also
 CC useful for treating microbial infections (especially from gram-positive
 CC bacteria).
 XX
 XX
 SQ Sequence 10 AA;
 Query Match 100.0%; Score 57; DB 22; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 KWLQLFHKK 10
 DB 1 KWLQLFHKK 10
 RESULT 45
 AAB68718
 ID AAB68718 standard; Peptide: 10 AA.
 AC
 XX
 AC AAB68718;
 DT 12-APR-2001 (first entry)
 XX
 XX Peptide-based construct XMP-501.
 DE Human; antifungal; bactericidal; fungal infection; microbial infection;
 KW bactericidal/permeability-increasing protein; BPI.
 KW Homo sapiens.
 XX
 OS WO200100671-A1.
 XX
 PN 04-JAN-2001.
 XX
 PD 23-JUN-2000; 2000WO-US17383.
 XX
 PF 25-JUN-1999; 99US-0344541.
 XX
 PR (XOMA) XOMA TECHNOLOGY LTD.
 XX
 PA Little RG, Lin J, Gikonyo JGK;
 PI WPI: 2001-122999/13.
 XX
 XX Derivatized compounds are peptide-based constructs from Domain III
 (amino acids 142-169) of bactericidal/permeability-increasing protein,
 PT useful as antifungal compounds -
 PS Claim 5; Page 77; 106pp; English.
 XX
 XX The present sequence is a peptide-based construct derived from or based
 CC on subsequences identified and selected from Domain III of
 CC bactericidal/permeability-increasing protein (BPI). It may be used
 CC to treat fungal infections, and for inhibiting growth and replication of
 CC fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma,
 CC Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus,
 CC Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium,
 CC Trichophyton, Trichosporon, Microsporium, Epidermophyton, Scytalidium,
 CC Malassezia, Actinomyces, Sporothrix or Penicillium. It is also
 CC useful for treating microbial infections (especially from gram-positive
 CC bacteria).
 XX
 XX
 SQ Sequence 10 AA;
 Query Match 100.0%; Score 57; DB 22; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 KWLQLFHKK 10
 DB 1 KWLQLFHKK 10
 RESULT 46
 AAB68719
 ID AAB68719 standard; Peptide: 10 AA.
 AC
 XX
 AC AAB68719;
 DT 12-APR-2001 (first entry)
 XX
 XX

```

DE Peptide-based construct XMP-502.
KW Human; antifungal; bactericidal; fungal infection; microbial infection;
KW bactericidal/permeability-increasing protein; BPI.
XX
XX Homo sapiens.
XX
XX WO200100671-A1.
XX
XX 04-JAN-2001.
XX
XX 23-JUN-2000; 2000WO-US17383.
XX
XX 25-JUN-1999; 99US-0344541.
XX
XX (XOMA ) XOMA TECHNOLOGY LTD.
XX
XX Little RG, Lin J, Gikonyo JGK;
XX
XX WPI; 2001-122999/13.
XX
XX Derivatized compounds are peptide-based constructs from Domain II:
XX (amino acids 142-169) of bactericidal/permeability-increasing protein,
XX useful as antifungal compounds -
XX
XX Claim 5; Page 78; 106pp; English.
XX
XX The present sequence is a peptide-based construct derived from or based
XX on subsequences identified and selected from Domain III of
XX bactericidal/permeability-increasing protein (BPI). It may be used
XX to treat fungal infections, and for inhibiting growth and replication of
XX fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma,
XX Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus,
XX Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium,
XX Trichophyton, Trichosporon, Microsporium, Epidermophyton, Scytalidium,
XX Malassezia, Actinomyces, Sporothrix or Penicillium. It is also
XX useful for treating microbial infections (especially from gram-positive
XX bacteria).
XX
XX Sequence 10 AA;
XX
XX Query Match 100.0%; Score 57; DB 22; Length 10;
XX Best Local Similarity 100.0%; Pred. No. 0.0016;
XX Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1 KWLQLFHKK 10
XX II::IIIIII
XX Db 1 KWLQLFHKK 10
XX
XX RESULT 47
XX AAB68720
XX ID AAB68720 standard; Peptide; 10 AA.
XX
XX AC AAB68721;
XX
XX DT 12-APR-2001 (first entry)
XX
XX DE Peptide-based construct XMP-504.
XX
XX KW Human; antifungal; bactericidal; fungal infection; microbial infection;
XX KW bactericidal/permeability-increasing protein; BPI.
XX
XX CS Homo sapiens.
XX
XX PN WO200100671-A1.
XX
XX PD 04-JAN-2001.
XX
XX PF 23-JUN-2000; 2000WO-US17383.
XX
XX PR 25-JUN-1999; 99US-0344541.
XX
XX PA (XOMA ) XOMA TECHNOLOGY LTD.
XX
XX PI Little RG, Lin J, Gikonyo JGK;
XX
XX DR WPI; 2001-122999/13.
XX
XX PT Derivatized compounds are peptide-based constructs from Domain III
XX (amino acids 142-169) of bactericidal/permeability-increasing protein,
XX useful as antifungal compounds -
XX
XX PS Claim 5; Page 79; 106pp; English.
XX
XX The present sequence is a peptide-based construct derived from or based
XX on subsequences identified and selected from Domain III of
XX bactericidal/permeability-increasing protein (BPI). It may be used

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PA (XOMA ) XOMA TECHNOLOGY LTD.
XX
XX Little RG, Lin J, Gikonyo JGK;
XX
XX WPI; 2001-122999/13.
XX
XX Derivatized compounds are peptide-based constructs from Domain III
XX (amino acids 142-169) of bactericidal/permeability-increasing protein,
XX useful as antifungal compounds -
XX
XX Claim 5; Page 78; 106pp; English.
XX
XX The present sequence is a peptide-based construct derived from or based
XX on subsequences identified and selected from Domain III of
XX bactericidal/permeability-increasing protein (BPI). It may be used
XX to treat fungal infections, and for inhibiting growth and replication of
XX fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma,
XX Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus,
XX Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium,
XX Trichophyton, Trichosporon, Microsporium, Epidermophyton, Scytalidium,
XX Malassezia, Actinomyces, Sporothrix or Penicillium. It is also
XX useful for treating microbial infections (especially from gram-positive
XX bacteria).
XX
XX Sequence 10 AA;
XX
XX Query Match 100.0%; Score 57; DB 22; Length 10;
XX Best Local Similarity 100.0%; Pred. No. 0.0016;
XX Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1 KWLQLFHKK 10
XX II::IIIIII
XX Db 1 KWLQLFHKK 10
XX
XX RESULT 48
XX AAB68721
XX ID AAB68721 standard; Peptide; 10 AA.
XX
XX AC AAB68721;
XX
XX DT 12-APR-2001 (first entry)
XX
XX DE Peptide-based construct XMP-504.
XX
XX KW Human; antifungal; bactericidal; fungal infection; microbial infection;
XX KW bactericidal/permeability-increasing protein; BPI.
XX
XX CS Homo sapiens.
XX
XX PN WO200100671-A1.
XX
XX PD 04-JAN-2001.
XX
XX PF 23-JUN-2000; 2000WO-US17383.
XX
XX PR 25-JUN-1999; 99US-0344541.
XX
XX PA (XOMA ) XOMA TECHNOLOGY LTD.
XX
XX PI Little RG, Lin J, Gikonyo JGK;
XX
XX DR WPI; 2001-122999/13.
XX
XX PT Derivatized compounds are peptide-based constructs from Domain III
XX (amino acids 142-169) of bactericidal/permeability-increasing protein,
XX useful as antifungal compounds -
XX
XX PS Claim 5; Page 79; 106pp; English.
XX
XX The present sequence is a peptide-based construct derived from or based
XX on subsequences identified and selected from Domain III of
XX bactericidal/permeability-increasing protein (BPI). It may be used

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CC to treat fungal infections, and for inhibiting growth and replication of
 CC fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma,
 CC Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus,
 CC Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium,
 CC Trichophyton, Trichosporon, Microsporium, Epidermophyton, Scytalidium,
 CC Malassezia, Actinomyces, Sporothrix or Penicillium. It is also
 CC useful for treating microbial infections (especially from gram-positive
 CC bacteria).

XX Sequence 10 AA;

Query Match 100.0%; Score 57; DB 22; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHHK 10
 DB 1 KWLQLFHHK 10
 |||||

RESULT 49

AB68722
 ID AAB68722 standard; Peptide; 10 AA.

XX
 AC AAB68722;
 DT 12-APR-2001 (first entry)

XX Peptide-based construct XMP-518.

DE Human; antifungal; bactericidal; fungal infection; microbial infection;
 KW bactericidal/permeability-increasing protein; BPI.

XX Homo sapiens.

XX WO200100671-A1.

PN 04-JAN-2001.

XX 23-JUN-2000; 2000WO-US17383.

XX 25-JUN-1999; 99US-0344541.

XX (XOMA) XOMA TECHNOLOGY LTD.

XX Little RG, Lin J, Gikonyo JGK;

XX WPI; 2001-122999/13.

XX Derivatized compounds are peptide-based constructs from Domain III
 PT (amino acids 142-169) of bactericidal/permeability-increasing protein,
 PT useful as antifungal compounds -

PS Claim 5; Page 79; 106pp; English.

XX The present sequence is a peptide-based construct derived from or based
 CC on subsequences identified and selected from Domain III of
 CC bactericidal/permeability-increasing protein (BPI). It may be used
 CC to treat fungal infections, and for inhibiting growth and replication of
 CC fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma,
 CC Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus,
 CC Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium,
 CC Trichophyton, Trichosporon, Microsporium, Epidermophyton, Scytalidium,
 CC Malassezia, Actinomyces, Sporothrix or Penicillium. It is also
 CC useful for treating microbial infections (especially from gram-positive
 CC bacteria).

XX Sequence 10 AA;

Query Match 100.0%; Score 57; DB 22; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHHK 10
 DB 1 KWLQLFHHK 10
 |||||

RESULT 50

AB68723
 ID AAB68723 standard; Peptide; 10 AA.

XX AAB68723;

XX 12-APR-2001 (first entry)

DE Peptide-based construct XMP-517.

XX Human; antifungal; bactericidal; fungal infection; microbial infection;
 KW bactericidal/permeability-increasing protein; BPI.

XX Homo sapiens.

XX WO200100671-A1.

PN 04-JAN-2001.

XX 23-JUN-2000; 2000WO-US17383.

XX 25-JUN-1999; 99US-0344541.

XX (XOMA) XOMA TECHNOLOGY LTD.

XX Little RG, Lin J, Gikonyo JGK;

XX WPI; 2001-122999/13.

XX Derivatized compounds are peptide-based constructs from Domain III
 PT (amino acids 142-169) of bactericidal/permeability-increasing protein,
 PT useful as antifungal compounds -

PS Claim 5; Page 80; 106pp; English.

XX The present sequence is a peptide-based construct derived from or based
 CC on subsequences identified and selected from Domain III of
 CC bactericidal/permeability-increasing protein (BPI). It may be used
 CC to treat fungal infections, and for inhibiting growth and replication of
 CC fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma,
 CC Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus,
 CC Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium,
 CC Trichophyton, Trichosporon, Microsporium, Epidermophyton, Scytalidium,
 CC Malassezia, Actinomyces, Sporothrix or Penicillium. It is also
 CC useful for treating microbial infections (especially from gram-positive
 CC bacteria).

XX Sequence 10 AA;

Query Match 100.0%; Score 57; DB 22; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHHK 10
 DB 1 KWLQLFHHK 10
 |||||

RESULT 51

AB68724
 ID AAB68724 standard; Peptide; 10 AA.

XX AAB68724;

XX 12-APR-2001 (first entry)

DE Peptide-based construct XMP-518.

KW Human: antifungal; bactericidal; fungal infection; microbial infection;
 XX bactericidal/permeability-increasing protein; BPI.
 XX Homo sapiens.
 OS
 PN WO200100671-A1.
 XX
 PD 04-JAN-2001.
 PF
 PP 23-JUN-2000; 2000WO-US-7383.
 XX
 PR 25-JUN-1999; 99US-0344541.
 XX
 PA (XOMA) XOMA TECHNOLOGY LTD.
 XX
 PI Little RG, Lin J, Gikonyo JGK;
 XX
 DR WP1: 2001-122999/13.
 XX
 PT Derivatized compounds are peptide-based constructs from Domain III
 PT (amino acids 142-169) of bactericidal/permeability-increasing protein,
 PT useful as antifungal compounds -
 XX
 PS Claim 5: Page 80; 106pp; English.
 XX
 CC The present sequence is a peptide-based construct derived from or based
 CC on subsequences identified and selected from Domain III of
 CC bactericidal/permeability-increasing protein (BPI). It may be used
 CC to treat fungal infections, and for inhibiting growth and replication of
 CC fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma,
 CC Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus,
 CC Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium,
 CC Trichophyton, Trichosporon, Microsporium, Epidermophyton, Scytalidium,
 CC Malassezia, Actinomyces, Sporothrix or Penicillium. It is also
 CC useful for treating microbial infections (especially from gram-positive
 CC bacteria).
 XX
 SQ Sequence 10 AA;
 XX
 Query Match 100.0%; Score 57; DB 22; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 KWLQLFPHKK 10
 DB 1 KWLQLFPHKK 10
 IIILIIIIII
 RESULT 52
 AAB68725
 ID AAB68725 standard; Peptide; 10 AA.
 AC
 XX AAB68725;
 DT 12-APR-2001 (first entry)
 XX
 DE Peptide-based construct XMP-519.
 XX
 KW Human: antifungal; bactericidal; fungal infection; microbial infection;
 KW bactericidal/permeability-increasing protein; BPI.
 XX
 OS Homo sapiens.
 XX
 PN WO200100671-A1.
 XX
 PD 04-JAN-2001.
 PF
 PP 23-JUN-2000; 2000WO-US17383.
 XX
 PR 25-JUN-1999; 99US-0344541.
 XX
 PA (XOMA) XOMA TECHNOLOGY LTD.
 XX

PI Little RG, Lin J, Gikonyo JGK;
 XX
 DR WP1: 2001-122999/13.
 XX
 PT Derivatized compounds are peptide-based constructs from Domain III
 PT (amino acids 142-169) of bactericidal/permeability-increasing protein,
 PT useful as antifungal compounds -
 XX
 PS Claim 5: Page 81; 106pp; English.
 XX
 CC The present sequence is a peptide-based construct derived from or based
 CC on subsequences identified and selected from Domain III of
 CC bactericidal/permeability-increasing protein (BPI). It may be used
 CC to treat fungal infections, and for inhibiting growth and replication of
 CC fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma,
 CC Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus,
 CC Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium,
 CC Trichophyton, Trichosporon, Microsporium, Epidermophyton, Scytalidium,
 CC Malassezia, Actinomyces, Sporothrix or Penicillium. It is also
 CC useful for treating microbial infections (especially from gram-positive
 CC bacteria).
 XX
 SQ Sequence 10 AA;
 XX
 Query Match 100.0%; Score 57; DB 22; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 KWLQLFPHKK 10
 DB 1 KWLQLFPHKK 10
 IIILIIIIII
 RESULT 53
 AAB68726
 ID AAB68726 standard; Peptide; 10 AA.
 AC
 XX AAB68726;
 DT 12-APR-2001 (first entry)
 XX
 DE Peptide-based construct XMP-520.
 XX
 KW Human: antifungal; bactericidal; fungal infection; microbial infection;
 KW bactericidal/permeability-increasing protein; BPI.
 XX
 OS Homo sapiens.
 XX
 PN WO200100671-A1.
 XX
 PD 04-JAN-2001.
 PF
 PP 23-JUN-2000; 2000WO-US17383.
 XX
 PR 25-JUN-1999; 99US-0344541.
 XX
 PA (XOMA) XOMA TECHNOLOGY LTD.
 XX
 PI Little RG, Lin J, Gikonyo JGK;
 XX
 DR WP1: 2001-122999/13.
 XX
 PT Derivatized compounds are peptide-based constructs from Domain III
 PT (amino acids 142-169) of bactericidal/permeability-increasing protein,
 PT useful as antifungal compounds -
 XX
 PS Claim 5: Page 81; 106pp; English.
 XX
 CC The present sequence is a peptide-based construct derived from or based
 CC on subsequences identified and selected from Domain III of
 CC bactericidal/permeability-increasing protein (BPI). It may be used
 CC to treat fungal infections, and for inhibiting growth and replication of
 CC fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma,
 CC Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus,
 CC Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium,
 CC Trichophyton, Trichosporon, Microsporium, Epidermophyton, Scytalidium,
 CC Malassezia, Actinomyces, Sporothrix or Penicillium. It is also
 CC useful for treating microbial infections (especially from gram-positive
 CC bacteria).
 XX

CC Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus,
 CC Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium,
 CC Trichophyton, Trichosporon, Microsporium, Epidermophyton, Scytalidium,
 CC Malassezia, Actinomyces, Sporothrix or Penicillium. It is also
 CC useful for treating microbial infections (especially from gram-positive
 CC bacteria).

SQ Sequence 10 AA;

Query Match 100.0%; Score 57; DB 22; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 KWLQLFHKK 10

DB 1 KWLQLFHKK 10

RESULT 54

AAB68727

ID AAB68727 standard; Peptide: 10 AA.

XX

AC AAB68727;

XX

DT 12-APR-2001 (first entry);

XX

DE Peptide-based construct XMP-522;

XX

XX Human; antifungal; bactericidal; fungal infection; microbial infection;

KW bactericidal/permeability-increasing protein; BPI.

XX

OS Homo sapiens.

XX

PN WO200100671-A1.

XX

XX 04-JAN-2001.

XX

PF 23-JUN-2000; 2000WO-US17383.

XX

PR 25-JUN-1999; 99US-0344541.

XX

XX (XOMA) XOMA TECHNOLOGY LTD.

PA

XX Little RG, Lin J, Gikonyo JGK;

PI

DR WPI: 2001-122999/13.

XX

XX Derivatized compounds are peptide-based constructs from Domain III;

PT (amino acids 142-169) of bactericidal/permeability-increasing protein,

PT useful as antifungal compounds -

XX

XX Claim 5; Page 82; 106pp; English.

PS

XX The present sequence is a peptide-based construct derived from or based

CC on subsequences identified and selected from Domain III of

CC bactericidal/permeability-increasing protein (BPI). It may be used

CC to treat fungal infections, and for inhibiting growth and replication of

CC fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma,

CC Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus,

CC Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium,

CC Trichophyton, Trichosporon, Microsporium, Epidermophyton, Scytalidium,

CC Malassezia, Actinomyces, Sporothrix or Penicillium. It is also

CC useful for treating microbial infections (especially from gram-positive

CC bacteria).

XX

SQ Sequence 10 AA;

Query Match 100.0%; Score 57; DB 22; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.0016;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 KWLQLFHKK 10

|||||

DB 1 KWLQLFHKK 10

RESULT 55

AAB68728

ID AAB68728 standard; Peptide: 10 AA.

XX

AC AAB68728;

XX

DI 12-APR-2001 (first entry)

XX

DE Peptide-based construct XMP-522.

XX

KW Human; antifungal; bactericidal; fungal infection; microbial infection;

XX bactericidal/permeability-increasing protein; BPI.

XX

OS Homo sapiens.

XX

PN WO200100671-A1.

XX

PD 04-JAN-2001.

XX

PF 23-JUN-2000; 2000WO-US17383.

XX

PR 25-JUN-1999; 99US-0344541.

XX

XX (XOMA) XOMA TECHNOLOGY LTD.

PA

XX Little RG, Lin J, Gikonyo JGK;

PI

DR WPI: 2001-122999/13.

XX

XX Derivatized compounds are peptide-based constructs from Domain III;

PT (amino acids 142-169) of bactericidal/permeability-increasing protein,

PT useful as antifungal compounds -

XX

XX Claim 5; Page 83; 106pp; English.

PS

XX The present sequence is a peptide-based construct derived from or based

CC on subsequences identified and selected from Domain III of

CC bactericidal/permeability-increasing protein (BPI). It may be used

CC to treat fungal infections, and for inhibiting growth and replication of

CC fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma,

CC Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus,

CC Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium,

CC Trichophyton, Trichosporon, Microsporium, Epidermophyton, Scytalidium,

CC Malassezia, Actinomyces, Sporothrix or Penicillium. It is also

CC useful for treating microbial infections (especially from gram-positive

CC bacteria).

XX

SQ Sequence 10 AA;

Query Match 100.0%; Score 57; DB 22; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.0016;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 KWLQLFHKK 10

|||||

DB 1 KWLQLFHKK 10

RESULT 56

AAB68729

ID AAB68729 standard; Peptide: 10 AA.

XX

AC AAB68729;

XX

DI 12-APR-2001 (first entry)

XX

DE Peptide-based construct XMP-523.

XX

KW Human; antifungal; bactericidal; fungal infection; microbial infection;

KW bactericidal/permeability-increasing protein; BPI.

XX Homo sapiens.
 XX WO200100671-A1.
 XX PD 04-JAN-2001.
 XX PF 23-JUN-2000; 2000WO-US17383.
 XX PR 25-JUN-1999; 99US-0344541.
 XX PA (XOMA) XOMA TECHNOLOGY LTD.
 XX PI Little RG, Lin J, Gikonyo JGK;
 XX WPI: 2001-122999/13.
 XX The present sequence is a peptide-based construct derived from or based on subsequences identified and selected from Domain III of bactericidal/permeability-increasing protein (BPI). It may be used to treat fungal infections, and for inhibiting growth and replication of fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma, Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus, Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium, Trichophyton, Trichosporon, Microsporum, Epidermophyton, Scytalidium, Malassezia, Actinomyces, Sporothrix or Penicillium. It is also useful for treating microbial infections (especially from gram-positive bacteria).
 XX Claim 5; Page 83; 106pp; English.
 XX The present sequence is a peptide-based construct derived from or based on subsequences identified and selected from Domain III of bactericidal/permeability-increasing protein (BPI). It may be used to treat fungal infections, and for inhibiting growth and replication of fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma, Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus, Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium, Trichophyton, Trichosporon, Microsporum, Epidermophyton, Scytalidium, Malassezia, Actinomyces, Sporothrix or Penicillium. It is also useful for treating microbial infections (especially from gram-positive bacteria).
 XX Query Match 100.0%; Score 57; DP 22; Length 10;
 XX Best Local Similarity 100.0%; Pred. No. 0.0016;
 XX Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX QY 1 KWLQLPFHKK 10
 XX DB 1 KWLQLPFHKK 10
 XX RESULT 57
 XX AAB68730
 XX ID AAB68730 standard; Peptide; 10 AA.
 XX AC AAB68730;
 XX DT 12-APR-2001 (first entry)
 XX DE Peptide-based construct XMP-524.
 XX KW Human; antifungal; bactericidal; fungal infection; microbial infection;
 XX KW bactericidal/permeability-increasing protein; BPI.
 XX OS Homo sapiens.
 XX WO200100671-A1.
 XX PD 04-JAN-2001.
 XX PF 23-JUN-2000; 2000WO-US17383.
 XX PR 25-JUN-1999; 99US-0344541.
 XX PA (XOMA) XOMA TECHNOLOGY LTD.
 XX PI Little RG, Lin J, Gikonyo JGK;

DR WPI: 2001-122999/13.
 XX Derivatized compounds are peptide-based constructs from Domain III (amino acids 142-169) of bactericidal/permeability-increasing protein, useful as antifungal compounds -
 XX Claim 5; Page 84; 106pp; English.
 XX The present sequence is a peptide-based construct derived from or based on subsequences identified and selected from Domain III of bactericidal/permeability-increasing protein (BPI). It may be used to treat fungal infections, and for inhibiting growth and replication of fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma, Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus, Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium, Trichophyton, Trichosporon, Microsporum, Epidermophyton, Scytalidium, Malassezia, Actinomyces, Sporothrix or Penicillium. It is also useful for treating microbial infections (especially from gram-positive bacteria).
 XX Query Match 100.0%; Score 57; DB 22; Length 10;
 XX Best Local Similarity 100.0%; Pred. No. 0.0016;
 XX Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX QY 1 KWLQLPFHKK 10
 XX DB 1 KWLQLPFHKK 10
 XX RESULT 56
 XX AAB68731
 XX ID AAB68731 standard; Peptide; 10 AA.
 XX AC AAB68731;
 XX DT 12-APR-2001 (first entry)
 XX DE Peptide-based construct XMP-525.
 XX KW Human; antifungal; bactericidal; fungal infection; microbial infection;
 XX KW bactericidal/permeability-increasing protein; BPI.
 XX OS Homo sapiens.
 XX WO200100671-A1.
 XX PD 04-JAN-2001.
 XX PF 23-JUN-2000; 2000WO-US17383.
 XX PR 25-JUN-1999; 99US-0344541.
 XX PA (XOMA) XOMA TECHNOLOGY LTD.
 XX PI Little RG, Lin J, Gikonyo JGK;
 XX WPI: 2001-122999/13.
 XX Derivatized compounds are peptide-based constructs from Domain III (amino acids 142-169) of bactericidal/permeability-increasing protein, useful as antifungal compounds -
 XX Claim 5; Page 84; 106pp; English.
 XX The present sequence is a peptide-based construct derived from or based on subsequences identified and selected from Domain III of bactericidal/permeability-increasing protein (BPI). It may be used to treat fungal infections, and for inhibiting growth and replication of fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma, Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus, Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium,

CC Trichophyton, Trichosporon, Microsporium, Epidermophyton, Scytalidium,
 CC Malassezia, Actinomyces, Sporothrix or Penicillium. It is also
 CC useful for treating microbial infections (especially from gram-positive
 CC bacteria).

SQ Sequence 10 AA;
 Query Match 100.0%; Score 57; DB 22; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
 |||||
 Db 1 KWLQLFHKK 10

RESULT 59
 AAB68732
 ID AAB68732 standard; Peptide: 10 AA.

XX AC AAB68732;

XX DT 12-APR-2001 (first entry)

XX PE Peptide-based construct XMP-526.

XX KW Human: antifungal; bactericidal; fungal infection; microbial infection;
 KW bactericidal/permeability-increasing protein; BPI.

XX OS Homo sapiens.

XX PN W0200100671-A1.

XX PD 04-JAN-2001.

XX PF 23-JUN-2000; 2000WC-US17383.

XX PR 25-JUN-1999; 99US-0344541.

XX PA (XOMA) XOMA TECHNOLOGY LTD.

XX PI Little RG, Lin J, Gikonyo JGK;

XX DR WPI; 2001-122999/13.

XX PT Derivatized compounds are peptide-based constructs from Domain III;

XX PI (amino acids 142-169) of bactericidal/permeability-increasing protein,
 useful as antifungal compounds -

XX PS Claim 5; Page 85; 106pp; English.

XX CC The present sequence is a peptide-based construct derived from or based
 CC on subsequences identified and selected from Domain III of
 CC bactericidal/permeability-increasing protein (BPI). It may be used
 CC to treat fungal infections, and for inhibiting growth and replication of
 CC fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma,
 CC Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus,
 CC Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium,
 CC Trichophyton, Trichosporon, Microsporium, Epidermophyton, Scytalidium,
 CC Malassezia, Actinomyces, Sporothrix or Penicillium. It is also
 CC useful for treating microbial infections (especially from gram-positive
 CC bacteria).

SQ Sequence 10 AA;
 Query Match 100.0%; Score 57; DB 22; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
 |||||
 Db 1 KWLQLFHKK 10

RESULT 60
 AAB68733
 ID AAB68733 standard; Peptide: 10 AA.

XX AC AAB68733;

XX DT 12-APR-2001 (first entry)

XX PE Peptide-based construct XMP-527.

XX KW Human: antifungal; bactericidal; fungal infection; microbial infection;
 KW bactericidal/permeability-increasing protein; BPI.

XX OS Homo sapiens.

XX PN W0200100671-A1.

XX PD 04-JAN-2001.

XX PF 23-JUN-2000; 2000WC-US17383.

XX PR 25-JUN-1999; 99US-0344541.

XX PA (XOMA) XOMA TECHNOLOGY LTD.

XX PI Little RG, Lin J, Gikonyo JGK;

XX DR WPI; 2001-122999/13.

XX PT Derivatized compounds are peptide-based constructs from Domain III
 PT (amino acids 142-169) of bactericidal/permeability-increasing protein,
 useful as antifungal compounds -

XX PS Claim 5; Page 86; 106pp; English.

XX CC The present sequence is a peptide-based construct derived from or based
 CC on subsequences identified and selected from Domain III of
 CC bactericidal/permeability-increasing protein (BPI). It may be used
 CC to treat fungal infections, and for inhibiting growth and replication of
 CC fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma,
 CC Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus,
 CC Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium,
 CC Trichophyton, Trichosporon, Microsporium, Epidermophyton, Scytalidium,
 CC Malassezia, Actinomyces, Sporothrix or Penicillium. It is also
 CC useful for treating microbial infections (especially from gram-positive
 CC bacteria).

XX SQ Sequence 10 AA;

Query Match 100.0%; Score 57; DB 22; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
 |||||
 Db 1 KWLQLFHKK 10

RESULT 61
 AAB68735
 ID AAB68735 standard; Peptide: 10 AA.

XX AC AAB68735;

XX DT 12-APR-2001 (first entry)

XX PE Peptide-based construct XMP-533.

XX KW Human: antifungal; bactericidal; fungal infection; microbial infection;
 KW bactericidal/permeability-increasing protein; BPI.

XX OS Homo sapiens.

XX WO200100671-A1.
 XX PN
 XX 04-JAN-2001.
 XX PF
 XX 23-JUN-2000; 2000WO-US-7383.
 XX PR
 XX 25-JUN-1999; 99US-0344541.
 XX PA (XOMA) XOMA TECHNOLOGY LTD.
 XX PI Little RG, Lin J, Gikonyo JGK;
 XX DR WPI; 2001-122999/13.
 XX PT Derivatized compounds are peptide-based constructs from Domain III:
 XX (amino acids 142-169) of bactericidal/permeability-increasing protein,
 XX useful as antifungal compounds -
 XX PS Claim 5; Page 87; 106pp; English.
 XX CC The present sequence is a peptide-based construct derived from or based
 XX on subsequences identified and selected from Domain III of
 XX bactericidal/permeability-increasing protein (BPI). It may be used
 XX to treat fungal infections, and for inhibiting growth and replication of
 XX fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma,
 XX Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus,
 XX Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium,
 XX Trichophyton, Trichosporon, Microsporium, Epidermophyton, Scytalidium,
 XX Malassezia, Actinomyces, Sporothrix or Penicillium. It is also
 XX useful for treating microbial infections (especially from gram-positive
 XX bacteria).
 XX SQ Sequence 10 AA:
 XX
 XX Query Match: 100.0%; Score 57; DB 22; Length 10;
 XX Best Local Similarity 100.0%; Pred. No. 0.0016;
 XX Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX
 XX QY 1 KWLQLFHKK 10
 XX |||||
 XX DB 1 KWLQLFHKK 10
 XX
 XX RESULT 62
 XX AAB68736
 XX ID AAB68736 standard; Peptide; 10 AA.
 XX AC
 XX AAB68736;
 XX
 XX DT 12-APR-2001 (first entry)
 XX DE Peptide-based construct XMP-534.
 XX
 XX KW Human; antifungal; bactericidal; fungal infection; microbial infection;
 XX KW bactericidal/permeability-increasing protein; BPI.
 XX OS Homo sapiens.
 XX PN WO200100671-A1.
 XX PD 04-JAN-2001.
 XX PF 23-JUN-2000; 2000WO-US17383.
 XX PR 25-JUN-1999; 99US-0344541.
 XX PA (XOMA) XOMA TECHNOLOGY LTD.
 XX PI Little RG, Lin J, Gikonyo JGK;
 XX DR WPI; 2001-122999/13.
 XX

PT Derivatized compounds are peptide-based constructs from Domain III
 PT (amino acids 142-169) of bactericidal/permeability-increasing protein,
 PT useful as antifungal compounds -
 XX PS Claim 5; Page 87; 106pp; English.
 XX CC The present sequence is a peptide-based construct derived from or based
 XX on subsequences identified and selected from Domain III of
 XX bactericidal/permeability-increasing protein (BPI). It may be used
 XX to treat fungal infections, and for inhibiting growth and replication of
 XX fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma,
 XX Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus,
 XX Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium,
 XX Trichophyton, Trichosporon, Microsporium, Epidermophyton, Scytalidium,
 XX Malassezia, Actinomyces, Sporothrix or Penicillium. It is also
 XX useful for treating microbial infections (especially from gram-positive
 XX bacteria).
 XX SQ Sequence 10 AA:
 XX
 XX Query Match: 100.0%; Score 57; DB 22; Length 10;
 XX Best Local Similarity 100.0%; Pred. No. 0.0016;
 XX Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX
 XX QY 1 KWLQLFHKK 10
 XX |||||
 XX DB 1 KWLQLFHKK 10
 XX
 XX RESULT 63
 XX AAB68737
 XX ID AAB68737 standard; Peptide; 10 AA.
 XX AC
 XX AAB68737;
 XX
 XX DT 12-APR-2001 (first entry)
 XX DE Peptide-based construct XMP-535.
 XX
 XX KW Human; antifungal; bactericidal; fungal infection; microbial infection;
 XX KW bactericidal/permeability-increasing protein; BPI.
 XX OS Homo sapiens.
 XX PN WO200100671-A1.
 XX PD 04-JAN-2001.
 XX PF 23-JUN-2000; 2000WO-US17383.
 XX PR 25-JUN-1999; 99US-0344541.
 XX PA (XOMA) XOMA TECHNOLOGY LTD.
 XX PI Little RG, Lin J, Gikonyo JGK;
 XX DR WPI; 2001-122999/13.
 XX
 XX Derivatized compounds are peptide-based constructs from Domain III
 XX (amino acids 142-169) of bactericidal/permeability-increasing protein,
 XX useful as antifungal compounds -
 XX PS Claim 5; Page 88; 106pp; English.
 XX CC The present sequence is a peptide-based construct derived from or based
 XX on subsequences identified and selected from Domain III of
 XX bactericidal/permeability-increasing protein (BPI). It may be used
 XX to treat fungal infections, and for inhibiting growth and replication of
 XX fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma,
 XX Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus,
 XX Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium,
 XX Trichophyton, Trichosporon, Microsporium, Epidermophyton, Scytalidium,
 XX Malassezia, Actinomyces, Sporothrix or Penicillium. It is also

CC useful for treating microbial infections (especially from gram-positive
 CC bacteria).

XX Sequence 10 AA:

Query Match 100.0%; Score 57; DB 22; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
 |||||
 Db 1 KWLQLFHKK 10

RESULT 64

AAB68738
 ID AAB68738 standard; Peptide: 10 AA.

XX AC AAB68738;

XX DT 12-APR-2001 (first entry)

XX DE Peptide-based construct XMP-546.

XX KW Human: antifungal; bactericidal; fungal infection; microbial infection;
 KW bactericidal/permeability-increasing protein; BPI.

XX OS Homo sapiens.

XX PN WO200100671-A1.

XX PD 04-JAN-2001.

XX PF 23-JUN-2000; 2000WO-US17383.

XX PR 25-JUN-1999; 99US-0344541.

XX PA (XOMA) XOMA TECHNOLOGY LTD.

XX PI Little RG, Lin J, Gikonyo JGK;

XX DR WPI; 2001-122999/13.

XX PT Derivatized compounds are peptide-based constructs from Domain III
 PT (amino acids 142-169) of bactericidal/permeability-increasing protein,
 PT useful as antifungal compounds -

XX PS Claim 5; Page 88; 106pp; English.

XX CC The present sequence is a peptide-based construct derived from or based
 CC on subsequences identified and selected from Domain III of
 CC bactericidal/permeability-increasing protein (BPI). It may be used
 CC to treat fungal infections, and for inhibiting growth and replication of
 CC fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma,
 CC Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus,
 CC Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium,
 CC Trichophyton, Trichosporon, Microsporium, Epidermophyton, Scytalidium,
 CC Malassezia, Actinomyces, Sporothrix or penicillium. It is also
 CC useful for treating microbial infections (especially from gram-positive
 CC bacteria).

XX SQ Sequence 10 AA:

Query Match 100.0%; Score 57; DB 22; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.0016;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
 |||||
 Db 1 KWLQLFHKK 10

RESULT 65

AAB68739
 ID AAB68739 standard; Peptide: 10 AA.

XX AC AAB68739;

XX DT 12-APR-2001 (first entry)

XX DE Peptide-based construct XMP-545.

XX KW Human: antifungal; bactericidal; fungal infection; microbial infection;
 KW bactericidal/permeability-increasing protein; BPI.

XX OS Homo sapiens.

XX PN WO200100671-A1.

XX PD 04-JAN-2001.

XX PF 23-JUN-2000; 2000WO-US17383.

XX PR 25-JUN-1999; 99US-0344541.

XX PA (XOMA) XOMA TECHNOLOGY LTD.

XX PI Little RG, Lin J, Gikonyo JGK;

XX DR WPI; 2001-122999/13.

XX PT Derivatized compounds are peptide-based constructs from Domain III
 PT (amino acids 142-169) of bactericidal/permeability-increasing protein,
 PT useful as antifungal compounds -

XX PS Claim 5; Page 89; 106pp; English.

XX CC The present sequence is a peptide-based construct derived from or based
 CC on subsequences identified and selected from Domain III of
 CC bactericidal/permeability-increasing protein (BPI). It may be used
 CC to treat fungal infections, and for inhibiting growth and replication of
 CC fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma,
 CC Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus,
 CC Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium,
 CC Trichophyton, Trichosporon, Microsporium, Epidermophyton, Scytalidium,
 CC Malassezia, Actinomyces, Sporothrix or penicillium. It is also
 CC useful for treating microbial infections (especially from gram-positive
 CC bacteria).

XX SQ Sequence 10 AA:

Query Match 100.0%; Score 57; DB 22; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.0016;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
 |||||
 Db 1 KWLQLFHKK 10

RESULT 66

AAB68740
 ID AAB68740 standard; Peptide: 10 AA.

XX AC AAB68740;

XX DT 12-APR-2001 (first entry)

XX DE Peptide-based construct XMP-546.

XX KW Human: antifungal; bactericidal; fungal infection; microbial infection;
 KW bactericidal/permeability-increasing protein; BPI.

XX OS Homo sapiens.

XX PN WO200100671-A1.

XX PD 04-JAN-2001.
 XX PS
 XX PF 23-JUN-2000; 2000WO-US17383.
 XX PR 25-JUN-1999; 99US-0344541.
 XX PA (XOMA) XOMA TECHNOLOGY LTD.
 XX PI Little RG, Lin J, Gikonyo JGK;
 XX PS WPI: 2001-122999/13.
 XX DR
 XX PT Derivatized compounds are peptide-based constructs from Domain III:
 PT (amino acids 142-169) of bactericidal/permeability-increasing protein,
 PT useful as antifungal compounds -
 XX PS Claim 5; Page 89; 106pp; English.
 XX CC The present sequence is a peptide-based construct derived from or based
 CC on subsequences identified and selected from Domain III of
 CC bactericidal/permeability-increasing protein (BPI). It may be used
 CC to treat fungal infections, and for inhibiting growth and replication of
 CC fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma,
 CC Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus,
 CC Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium,
 CC Trichophyton, Trichosporon, Microsporium, Epidermophyton, Scytalidium,
 CC Malassezia, Actinomyces, Sporothrix or Penicillium. It is also
 CC useful for treating microbial infections (especially from gram-positive
 CC bacteria).
 XX SQ Sequence 10 AA:
 XX
 XX Query Match 100.0%; Score 57; DB 22; Length 10;
 XX Best Local Similarity 100.0%; Pred. No. 0.0016;
 XX Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 KWLQLFHKK 10
 DB 1 KWLQLFHKK 10
 |||||
 1 KWLQLFHKK 10
 RESULT 67
 AAB68741
 ID AAB68741 standard; Peptide: 10 AA.
 XX AC AAB68741;
 XX DT 12-APR-2001 (first entry)
 XX DE Peptide-based construct XMP-560.
 XX KW Human; antifungal; bactericidal; fungal infection; microbial infection;
 KW bactericidal/permeability-increasing protein; BPI.
 XX OS Homo sapiens.
 XX PN WO200100671-A1.
 XX PD 04-JAN-2001.
 XX PF 23-JUN-2000; 2000WO-US17383.
 XX PR 25-JUN-1999; 99US-0344541.
 XX PA (XOMA) XOMA TECHNOLOGY LTD.
 XX PI Little RG, Lin J, Gikonyo JGK;
 XX PS WPI: 2001-122999/13.
 XX DR
 XX PT Derivatized compounds are peptide-based constructs from Domain III:
 PT (amino acids 142-169) of bactericidal/permeability-increasing protein,
 PT useful as antifungal compounds -

PT Useful as antifungal compounds -
 XX PS Claim 5; Page 90; 106pp; English.
 XX CC The present sequence is a peptide-based construct derived from or based
 CC on subsequences identified and selected from Domain III of
 CC bactericidal/permeability-increasing protein (BPI). It may be used
 CC to treat fungal infections, and for inhibiting growth and replication of
 CC fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma,
 CC Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus,
 CC Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium,
 CC Trichophyton, Trichosporon, Microsporium, Epidermophyton, Scytalidium,
 CC Malassezia, Actinomyces, Sporothrix or Penicillium. It is also
 CC useful for treating microbial infections (especially from gram-positive
 CC bacteria).
 XX SQ Sequence 10 AA:
 XX
 XX Query Match 100.0%; Score 57; DB 22; Length 10;
 XX Best Local Similarity 100.0%; Pred. No. 0.0016;
 XX Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 KWLQLFHKK 10
 DB 1 KWLQLFHKK 10
 |||||
 1 KWLQLFHKK 10
 RESULT 68
 AAB68743
 ID AAB68743 standard; Peptide: 10 AA.
 XX AC AAB68743;
 XX DT 12-APR-2001 (first entry)
 XX DE Peptide-based construct XMP-596.
 XX KW Human; antifungal; bactericidal; fungal infection; microbial infection;
 KW bactericidal/permeability-increasing protein; BPI.
 XX OS Homo sapiens.
 XX PN WO200100671-A1.
 XX PD 04-JAN-2001.
 XX PF 23-JUN-2000; 2000WO-US17383.
 XX PR 25-JUN-1999; 99US-0344541.
 XX PA (XOMA) XOMA TECHNOLOGY LTD.
 XX PI Little RG, Lin J, Gikonyo JGK;
 XX PS WPI: 2001-122999/13.
 XX DR
 XX PT Derivatized compounds are peptide-based constructs from Domain III:
 PT (amino acids 142-169) of bactericidal/permeability-increasing protein,
 PT useful as antifungal compounds -
 XX PS Claim 5; Page 91; 106pp; English.
 XX CC The present sequence is a peptide-based construct derived from or based
 CC on subsequences identified and selected from Domain III of
 CC bactericidal/permeability-increasing protein (BPI). It may be used
 CC to treat fungal infections, and for inhibiting growth and replication of
 CC fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma,
 CC Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus,
 CC Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium,
 CC Trichophyton, Trichosporon, Microsporium, Epidermophyton, Scytalidium,
 CC Malassezia, Actinomyces, Sporothrix or Penicillium. It is also
 CC useful for treating microbial infections (especially from gram-positive
 CC bacteria).

```

XX
SQ Sequence 10 AA;
Query Match 100.0%; Score 57; DB 22; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0016;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 KWLQLFHKK 10
DB 1 KWLQLFHKK 10

RESULT 69
AAB68748
ID AAB68748 standard; Peptide: 10 AA.
XX
AC AAB68748;
XX
DT 12-APR-2001 (first entry)
XX
DE Peptide-based construct XMP-618.
XX
KW Human; antifungal; bactericidal; fungal infection; microbial infection;
KW bactericidal/permeability-increasing protein; BPI.
XX
OS Homo sapiens.
XX
PN WO200100671-A1.
XX
PD 04-JAN-2001.
XX
PF 23-JUN-2000; 2000WO-US17383.
XX
PR 25-JUN-1999; 99US-0344541.
XX
PA (XOMA ) XOMA TECHNOLOGY LTD.
XX
PI Little RG, Lin J, Gikonyo JGK;
XX
PD WPI: 2001-122999/13.
XX
PF Derivatized compounds are peptide-based constructs from Domain III
PN (amino acids 142-169) of bactericidal/permeability-increasing protein;
XX useful as antifungal compounds -
XX
PD Claim 5; Page 93; 106pp; English.
XX
PF The present sequence is a peptide-based construct derived from or based
CC on subsequences identified and selected from Domain III of
CC bactericidal/permeability-increasing protein (BPI). It may be used
CC to treat fungal infections, and for inhibiting growth and replication of
CC fungi, particularly Candida, Aspergillus, Cryptococcus, Histoplasma,
CC Coccidioides, Blastomyces, Basidiobolus, Conidiobolus, Rhizopus,
CC Rhizomucor, Absidia, Mortierella, Cunninghamella, Saksenaea, Fusarium,
CC Trichophyton, Trichosporon, Microsporium, Epidermophyton, Scytalidium,
CC Malassezia, Actinomyces, Sporothrix or Penicillium. It is also
CC useful for treating microbial infections (especially from gram-positive
CC bacteria).
XX
PS Sequence 10 AA;
XX
Query Match 100.0%; Score 57; DB 22; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0016;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 KWLQLFHKK 10
DB 1 KWLQLFHKK 10

RESULT 70
AAB68749
ID AAB68749 standard; Peptide: 10 AA.
XX
AC AAB68749;
XX
DT 27-MAR-2001 (first entry)
XX
DE Anti-fungal peptide XMP.293.
XX
KW Human; BPI; antifungal; polymorphonuclear leukocyte; neutrophil;
KW bactericidal/permeability-increasing protein; bactericidal;
XX fungal infection.
XX
OS Homo sapiens.
XX
PN US6156730-A.
XX

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PD 05-DEC-2000.
 XX 08-JAN-1999; 99US-0227659.
 XX 21-MAR-1996; 96US-0621259.
 PR 12-MAR-1993; 93US-0030644.
 PR 15-JUL-1993; 93US-0093202.
 PR 14-JAN-1994; 94US-0183222.
 PR 11-MAR-1994; 94US-0209762.
 PR 11-JUL-1994; 94US-0273540.
 PR 15-SEP-1994; 94US-0306473.
 PR 13-JAN-1995; 95US-0372105.
 PR 20-JUL-1995; 95US-0504841.
 XX (XOMA) XOMA CORP.
 XX Lim E, Fadem MB, Little RG;

PI WPI: 2001-090160/10.
 XX Novel anti-fungal peptides derived from domain III of
 PT bactericidal/permeability-increasing protein useful for killing or
 PT inhibiting replication of fungi and for treating fungal infections -
 XX Example 2: Columns 147-148; 134pp; English.

XX The present invention relates to antifungal peptides (see
 CC AAB65301-B65550) derived from Domain III (amino acids 142-169) of
 CC bactericidal/permeability-increasing protein (BPI). The present sequence
 CC is one such antifungal peptide. BPI is a protein isolated from the
 CC granules of mammalian polymorphonuclear leukocytes (PMNs or
 CC neutrophils). BPI has potent bactericidal activity against a broad range
 CC of gram-negative bacteria. The peptides of the present invention are
 CC useful for killing or inhibiting replication of fungi, and treating
 CC infections caused by fungus belonging to Candida, Aspergillus,
 CC Cryptococcus species such as C.albicans, C.glabrata, C.krusei,
 CC C.lusitanae, C.parapsilosis and C.tropicalis.

XX SQ Sequence 10 AA:

Query Match 100.0%; Score 57; DB 22; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KWLQLFHKK 10
 ID 1 KWLQLFHKK 10
 DB 1 KWLQLFHKK 10

RESULT 72

AAB65494
 ID AAB65494 standard; Peptide: 10 AA.
 XX AAB65494;
 XX 27-MAR-2001 (first entry)
 XX Anti-fungal peptide XMP.363.

Human: BPI; antifungal; polymorphonuclear leukocyte; neutrophil;
 KW bactericidal/permeability-increasing protein; bactericidal;
 KW fungal infection.

XX Homo sapiens.

XX US6156730-A.

XX 05-DEC-2000.

XX 08-JAN-1999; 99US-0227659.

XX 21-MAR-1996; 96US-0621259.

XX 12-MAR-1993; 93US-0030644.

PR 15-JUL-1993; 93US-0093202.
 PR 14-JAN-1994; 94US-0183222.
 PR 11-MAR-1994; 94US-0209762.
 PR 11-JUL-1994; 94US-0273540.
 PR 15-SEP-1994; 94US-0306473.
 PR 13-JAN-1995; 95US-0372105.
 PR 20-JUL-1995; 95US-0504841.
 XX (XOMA) XOMA CORP.
 XX Lim E, Fadem MB, Little RG;
 XX WPI: 2001-090160/10.

XX Novel anti-fungal peptides derived from domain III of
 PT bactericidal/permeability-increasing protein useful for killing or
 PT inhibiting replication of fungi and for treating fungal infections -
 XX Example 2: Columns 195-196; 134pp; English.

XX The present invention relates to antifungal peptides (see
 CC AAB65301-B65550) derived from Domain III (amino acids 142-169) of
 CC bactericidal/permeability-increasing protein (BPI). The present sequence
 CC is one such antifungal peptide. BPI is a protein isolated from the
 CC granules of mammalian polymorphonuclear leukocytes (PMNs or
 CC neutrophils). BPI has potent bactericidal activity against a broad range
 CC of gram-negative bacteria. The peptides of the present invention are
 CC useful for killing or inhibiting replication of fungi, and treating
 CC infections caused by fungus belonging to Candida, Aspergillus,
 CC Cryptococcus species such as C.albicans, C.glabrata, C.krusei,
 CC C.lusitanae, C.parapsilosis and C.tropicalis.

XX SQ Sequence 10 AA:

Query Match 100.0%; Score 57; DB 22; Length 10;
 Best Local Similarity 100.0%; Pred. No. 0.0016;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KWLQLFHKK 10
 ID 1 KWLQLFHKK 10
 DB 1 KWLQLFHKK 10

RESULT 73

AAB65495
 ID AAB65495 standard; Peptide: 10 AA.
 XX AAB65495;
 XX 27-MAR-2001 (first entry)
 XX Anti-fungal peptide XMP.364.

Human: BPI; antifungal; polymorphonuclear leukocyte; neutrophil;
 KW bactericidal/permeability-increasing protein; bactericidal;
 KW fungal infection.

XX Homo sapiens.

XX US6156730-A.

XX 05-DEC-2000.

XX 08-JAN-1999; 99US-0227659.

XX 21-MAR-1996; 96US-0621259.

XX 12-MAR-1993; 93US-0030644.

XX 15-JUL-1993; 93US-0093202.

XX 14-JAN-1994; 94US-0183222.

XX 11-MAR-1994; 94US-0209762.

XX 11-JUL-1994; 94US-0273540.

XX 15-SEP-1994; 94US-0306473.

XX 13-JAN-1995; 95US-0372105.

PR 20-JUL-1995; 95US-0504841.

XX (XOMA) XOMA CORP.

XX Lim E, Fadem MB, Little RG;

XX WPI: 2001-090160/10.

XX Novel anti-fungal peptides derived from domain III of
PT bactericidal/permeability-increasing protein useful for killing or
PI inhibiting replication of fungi and for treating fungal infections

XX Example 2: Columns 195-196; 134pp; English.

XX The present invention relates to antifungal peptides (see
CC AAB65301-B65550) derived from Domain III (amino acids 142-169) of
CC bactericidal/permeability-increasing protein (BPI). The present sequence
CC is one such antifungal peptide. BPI is a protein isolated from the
CC granules of mammalian polymorphonuclear leukocytes (PMNs or
CC neutrophils). BPI has potent bactericidal activity against a broad range
CC of gram-negative bacteria. The peptides of the present invention are
CC useful for killing or inhibiting replication of fungi, and treating
CC infections caused by fungus belonging to Candida, Aspergillus,
CC Cryptococcus species such as C.albicans, C.glabrata, C.krusei,
CC C.lusitanae, C.parapsilosis and C.tropicalis.

XX Sequence 10 AA:

Query Match 100.0%; Score 57; DB 22; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.0016;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLIGLPHKK 10

DB 1 KWLIGLPHKK 10

RESULT 74

AAB65496

ID AAB65496 standard; Peptide: 10 AA.

XX AAB65496;

XX 27-MAR-2001 (first entry)

XX Anti-fungal peptide XMP.365.

XX Human: BPI: antifungal; polymorphonuclear leukocyte; neutrophil;
KW bactericidal/permeability-increasing protein; bactericidal;
KW fungal infection.

XX Homo sapiens.

XX US6156730-A.

XX 05-DEC-2000.

XX 08-JAN-1999; 99US-0227659.

XX 21-MAR-1996; 96US-0621259.

XX 12-MAR-1993; 93US-0030644.

XX 15-JUL-1993; 93US-0093202.

XX 14-JAN-1994; 94US-0183222.

XX 11-MAR-1994; 94US-0209762.

XX 11-JUL-1994; 94US-0273540.

XX 15-SEP-1994; 94US-0306473.

XX 13-JAN-1995; 95US-0372105.

XX 20-JUL-1995; 95US-0504841.

XX (XOMA) XOMA CORP.

XX Lim E, Fadem MB, Little RG;

XX

DR WPI: 2001-090160/10.

XX Novel anti-fungal peptides derived from domain III of
PT bactericidal/permeability-increasing protein useful for killing or
PI inhibiting replication of fungi and for treating fungal infections

XX Example 2: Columns 197-198; 134pp; English.

XX The present invention relates to antifungal peptides (see
CC AAB65301-B65550) derived from Domain III (amino acids 142-169) of
CC bactericidal/permeability-increasing protein (BPI). The present sequence
CC is one such antifungal peptide. BPI is a protein isolated from the
CC granules of mammalian polymorphonuclear leukocytes (PMNs or
CC neutrophils). BPI has potent bactericidal activity against a broad range
CC of gram-negative bacteria. The peptides of the present invention are
CC useful for killing or inhibiting replication of fungi, and treating
CC infections caused by fungus belonging to Candida, Aspergillus,
CC Cryptococcus species such as C.albicans, C.glabrata, C.krusei,
CC C.lusitanae, C.parapsilosis and C.tropicalis.

XX Sequence 10 AA:

Query Match 100.0%; Score 57; DB 22; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.0016;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLIGLPHKK 10

DB 1 KWLIGLPHKK 10

RESULT 75

AAB65497

ID AAB65497 standard; Peptide: 10 AA.

XX AAB65497;

XX 27-MAR-2001 (first entry)

XX Anti-fungal peptide XMP.366.

XX Human: BPI: antifungal; polymorphonuclear leukocyte; neutrophil;
KW bactericidal/permeability-increasing protein; bactericidal;
KW fungal infection.

XX Homo sapiens.

XX US6156730-A.

XX 05-DEC-2000.

XX 08-JAN-1999; 99US-0227659.

XX 21-MAR-1996; 96US-0621259.

XX 12-MAR-1993; 93US-0030644.

XX 15-JUL-1993; 93US-0093202.

XX 14-JAN-1994; 94US-0183222.

XX 11-MAR-1994; 94US-0209762.

XX 11-JUL-1994; 94US-0273540.

XX 15-SEP-1994; 94US-0306473.

XX 13-JAN-1995; 95US-0372105.

XX 20-JUL-1995; 95US-0504841.

XX (XOMA) XOMA CORP.

XX Lim E, Fadem MB, Little RG;

XX WPI: 2001-090160/10.

XX Novel anti-fungal peptides derived from domain III of
PT bactericidal/permeability-increasing protein useful for killing or
PI inhibiting replication of fungi and for treating fungal infections

XX

PS Example 2: Columns 197-199, 134pp; English.

XX The present invention relates to antifungal peptides (see
CC AAB65301-B65550) derived from Domain III (amino acids 142-169) of
CC bactericidal/permeability-increasing protein (BPI). The present sequence
CC is one such antifungal peptide. BPI is a protein isolated from the
CC granules of mammalian polymorphonuclear leukocytes (PMNs or
CC neutrophils). BPI has potent bactericidal activity against a broad range
CC of gram-negative bacteria. The peptides of the present invention are
CC useful for killing or inhibiting replication of fungi, and treating
CC infections caused by fungus belonging to Candida, Aspergillus,
CC Cryptococcus species such as C.albicans, C.glabrata, C.krusei,
CC C.lusitanae, C.parapsilosis and C.tropicalis.

XX Sequence 10 AA:

Query Match: 100.0%; Score 57; DB 22; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0016;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10

DB 1 KWLQLFHKK 10

RESULT 76

AAB65504
ID AAB65504 standard; Peptide: 10 AA.

AC AAB65504;

DT 27-MAR-2001 (first entry)

DE Anti-fungal peptide XMP.373.

XX Human; BPI; antifungal; polymorphonuclear leukocyte; neutrophil;
KW bactericidal/permeability-increasing protein; bactericidal;
KW fungal infection.

XX Homo sapiens.

PN US6156730-A.

PD 05-DEC-2000.

PF 08-JAN-1999; 99US-0227659.

PR 21-MAR-1996; 96US-0621259.

PR 12-MAR-1993; 93US-0030644.

PR 15-JUL-1993; 93US-0093262.

PR 14-JAN-1994; 94US-0183222.

PR 11-MAR-1994; 94US-0209762.

PR 11-JUL-1994; 94US-0273540.

PR 15-SEP-1994; 94US-0306473.

PR 13-JAN-1995; 95US-0372105.

PR 20-JUL-1995; 95US-0504841.

XX (XOMA) XOMA CORP.

PI Lim E, Padem MB, Little RG;

DR WPI; 2001-090160/10.

XX Novel anti-fungal peptides derived from domain III of
PT bactericidal/permeability-increasing protein; useful for killing or
PT inhibiting replication of fungi and for treating fungal infections

PS Example 2: Columns 203-204; 134pp; English.

XX The present invention relates to antifungal peptides (see

CC AAB65301-B65550) derived from Domain III (amino acids 142-169) of
CC bactericidal/permeability-increasing protein (BPI). The present sequence
CC is one such antifungal peptide. BPI is a protein isolated from the

CC granules of mammalian polymorphonuclear leukocytes (PMNs or
CC neutrophils). BPI has potent bactericidal activity against a broad range
CC of gram-negative bacteria. The peptides of the present invention are
CC useful for killing or inhibiting replication of fungi, and treating
CC infections caused by fungus belonging to Candida, Aspergillus,
CC Cryptococcus species such as C.albicans, C.glabrata, C.krusei,
CC C.lusitanae, C.parapsilosis and C.tropicalis.

XX Sequence 10 AA:

Query Match: 100.0%; Score 57; DB 22; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0016;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10

DB 1 KWLQLFHKK 10

RESULT 77

AAB65544

ID AAB65544 standard; Peptide: 10 AA.

XX AAB65544;

DT 27-MAR-2001 (first entry)

DE Anti-fungal peptide XMP.414.

XX Human; BPI; antifungal; polymorphonuclear leukocyte; neutrophil;
KW bactericidal/permeability-increasing protein; bactericidal;
KW fungal infection.

XX Homo sapiens.

PN US6156730-A.

PD 05-DEC-2000.

PF 08-JAN-1999; 99US-0227659.

PR 21-MAR-1996; 96US-0621259.

PR 12-MAR-1993; 93US-0030644.

PR 15-JUL-1993; 93US-0093262.

PR 14-JAN-1994; 94US-0183222.

PR 11-MAR-1994; 94US-0209762.

PR 11-JUL-1994; 94US-0273540.

PR 15-SEP-1994; 94US-0306473.

PR 13-JAN-1995; 95US-0372105.

PR 20-JUL-1995; 95US-0504841.

XX (XOMA) XOMA CORP.

PI Lim E, Padem MB, Little RG;

DR WPI; 2001-090160/10.

XX Novel anti-fungal peptides derived from domain III of
PT bactericidal/permeability-increasing protein useful for killing or
PT inhibiting replication of fungi and for treating fungal infections

PS Example 2: Columns 233-234; 134pp; English.

XX The present invention relates to antifungal peptides (see
CC AAB65301-B65550) derived from Domain III (amino acids 142-169) of
CC bactericidal/permeability-increasing protein (BPI). The present sequence
CC is one such antifungal peptide. BPI is a protein isolated from the
CC granules of mammalian polymorphonuclear leukocytes (PMNs or
CC neutrophils). BPI has potent bactericidal activity against a broad range
CC of gram-negative bacteria. The peptides of the present invention are
CC useful for killing or inhibiting replication of fungi, and treating
CC infections caused by fungus belonging to Candida, Aspergillus,
CC Cryptococcus species such as C.albicans, C.glabrata, C.krusei,

CC C.lusitanae, C.parapsilosis and C.tropicalis.

XX Sequence 10 AA;

Query Match 100.0%; Score 57; DB 22; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.0016;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KWLQLFHHK 10

Db 1 KWLQLFHHK 10

RESULT 78

AAB65545

ID AAB65545 standard; Peptide: 10 AA.

XX

AC AAB65545;

DT 27-MAR-2001 (first entry)

XX

DE Anti-fungal peptide XMP.415.

XX

XX Human; BPI; antifungal; polymorphonuclear leukocyte; neutrophil;

KW bactericidal/permeability-increasing protein; bactericidal;

KW fungal infection.

XX

XX Homo sapiens.

OS

XX US6156730-A.

PN

XX 05-DEC-2000.

PD

XX 08-JAN-1995;

XX

XX 21-MAR-1996;

PR

XX 12-MAR-1993;

PR

XX 15-JUL-1993;

PR

XX 14-JAN-1994;

PR

XX 11-MAR-1994;

PR

XX 11-JUL-1994;

PR

XX 15-SEP-1994;

PR

XX 13-JAN-1995;

PR

XX 20-JUL-1995;

XX

XX (XOMA) XOMA CORP.

PA

XX Lim E, Fadem MB, Little RG;

XX

XX WPI; 2001-090160/10.

XX

XX Novel anti-fungal peptides derived from domain III of

PT bactericidal/permeability-increasing protein useful for killing or

PT inhibiting replication of fungi and for treating fungal infections

XX

XX Example 2; Columns 233-234; 134pp; English.

PS

XX The present invention relates to antifungal peptides (see

XX AAB65301-B65550) derived from Domain III (amino acids 142-169) of

CC bactericidal/permeability-increasing protein (BPI). The present sequence

CC is one such antifungal peptide. BPI is a protein isolated from the

CC granules of mammalian polymorphonuclear leukocytes (PMNs or

CC neutrophils). BPI has potent bactericidal activity against a broad range

CC of gram-negative bacteria. The peptides of the present invention are

CC useful for killing or inhibiting replication of fungi, and treating

CC infections caused by fungus belonging to Candida, Aspergillus,

CC Cryptococcus species such as C.albicans, C.glabrata, C.krusei,

CC C.lusitanae, C.parapsilosis and C.tropicalis.

XX

XX Sequence 10 AA;

SQ

Query Match 100.0%; Score 57; DB 22; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.0016;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KWLQLFHHK 10

Db 1 KWLQLFHHK 10

RESULT 79

AAB65546

ID AAB65546 standard; Peptide: 10 AA.

XX

AC AAB65546;

DT 27-MAR-2001 (first entry)

XX

DE Anti-fungal peptide XMP.416.

XX

XX Human; BPI; antifungal; polymorphonuclear leukocyte; neutrophil;

KW bactericidal/permeability-increasing protein; bactericidal;

KW fungal infection.

XX

XX Homo sapiens.

OS

XX US6156730-A.

PN

XX 05-DEC-2000.

PD

XX 06-JAN-1999;

XX

XX 21-MAR-1996;

PR

XX 12-MAR-1993;

PR

XX 15-JUL-1993;

PR

XX 14-JAN-1994;

PR

XX 11-MAR-1994;

PR

XX 11-JUL-1994;

PR

XX 15-SEP-1994;

PR

XX 13-JAN-1995;

PR

XX 20-JUL-1995;

XX

XX (XOMA) XOMA CORP.

PA

XX Lim E, Fadem MB, Little RG;

XX

XX WPI; 2001-090160/10.

XX

XX Novel anti-fungal peptides derived from domain III of

PT bactericidal/permeability-increasing protein useful for killing or

PT inhibiting replication of fungi and for treating fungal infections

XX

XX Example 2; Columns 235-236; 134pp; English.

PS

XX The present invention relates to antifungal peptides (see

XX AAB65301-B65550) derived from Domain III (amino acids 142-169) of

CC bactericidal/permeability-increasing protein (BPI). The present sequence

CC is one such antifungal peptide. BPI is a protein isolated from the

CC granules of mammalian polymorphonuclear leukocytes (PMNs or

CC neutrophils). BPI has potent bactericidal activity against a broad range

CC of gram-negative bacteria. The peptides of the present invention are

CC useful for killing or inhibiting replication of fungi, and treating

CC infections caused by fungus belonging to Candida, Aspergillus,

CC Cryptococcus species such as C.albicans, C.glabrata, C.krusei,

CC C.lusitanae, C.parapsilosis and C.tropicalis.

XX

XX Sequence 10 AA;

SQ

Query Match 100.0%; Score 57; DB 22; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.0016;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KWLQLFHHK 10

Db 1 KWLQLFHHK 10

```

RESULT 80
AAB65547
ID AAB65547 standard; Peptide: 10 AA.
XX
AC AAB65547;
XX
DT 27-MAR-2001 (first entry)
XX
DE Anti-fungal peptide XMP.417.
XX
KW Human; BPI; antifungal; polymorphonuclear leukocyte; neutrophil;
KW bactericidal/permeability-increasing protein; bactericidal;
KW fungal infection.
XX
OS Homo sapiens.
XX
PN US6156730-A.
XX
PD 05-DEC-2000.
XX
PF 08-JAN-1999; 99US-0227659.
XX
PR 21-MAR-1996; 96US-0621259.
PR 12-MAR-1993; 93US-0030644.
PR 15-JUL-1993; 93US-0093202.
PR 14-JAN-1994; 94US-0183222.
PR 11-MAR-1994; 94US-0209762.
PR 11-JUL-1994; 94US-0273540.
PR 15-SEP-1994; 94US-0306473.
PR 13-JAN-1995; 95US-0372105.
PR 20-JUL-1995; 95US-0504841.
XX
PA (XOMA ) XOMA CORP.
XX
PI Lim E, Fadem MB, Little RG;
XX
DR WPI: 2001-090160/10.
XX
PT Novel anti-fungal peptides derived from domain III of
PT bactericidal/permeability-increasing protein useful for killing or
PT inhibiting replication of fungi and for treating fungal infections
XX
PS Example 2: Columns 235-236; 134pp: English.
XX
CC The present invention relates to antifungal peptides (see
CC AAB65301-B65550) derived from Domain III (amino acids 142-169) of
CC bactericidal/permeability-increasing protein (BPI). The present sequence
CC is one such antifungal peptide. BPI is a protein isolated from the
CC granules of mammalian polymorphonuclear leukocytes (PMNs or
CC neutrophils). BPI has potent bactericidal activity against a broad range
CC of gram-negative bacteria. The peptides of the present invention are
CC useful for killing or inhibiting replication of fungi, and treating
CC infections caused by fungus belonging to Candida, Aspergillus,
CC Cryptococcus species such as C.albicans, C.glabrata, C.krusei,
CC C.lusitanae, C.parapsilosis and C.tropicalis.
XX
SQ Sequence 10 AA:
Query Match 100.0%; Score 57; DB 22; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0016;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
DB 1 KWLQLFHKK 10
1111111111

RESULT 81
AAB65550
ID AAB65550 standard; Peptide: 10 AA.
XX
AC AAB65550;

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```

XX
DT 27-MAR-2001 (first entry)
XX
DE Anti-fungal peptide XMP.420.
XX
KW Human; BPI; antifungal; polymorphonuclear leukocyte; neutrophil;
KW bactericidal/permeability-increasing protein; bactericidal;
KW fungal infection.
XX
OS Homo sapiens.
XX
PN US6156730-A.
XX
PD 05-DEC-2000.
XX
PF 03-JAN-1999; 99US-0227659.
XX
PR 21-MAR-1996; 96US-0621259.
PR 12-MAR-1993; 93US-0030644.
PR 15-JUL-1993; 93US-0093202.
PR 14-JAN-1994; 94US-0183222.
PR 11-MAR-1994; 94US-0209762.
PR 11-JUL-1994; 94US-0273540.
PR 15-SEP-1994; 94US-0306473.
PR 13-JAN-1995; 95US-0372105.
PR 20-JUL-1995; 95US-0504841.
XX
PA (XOMA ) XOMA CORP.
XX
PI Lim E, Fadem MB, Little RG;
XX
DR WPI: 2001-090160/10.
XX
PT Novel anti-fungal peptides derived from domain III of
PT bactericidal/permeability-increasing protein useful for killing or
PT inhibiting replication of fungi and for treating fungal infections
XX
PS Example 2: Columns 237-238; 134pp: English.
XX
CC The present invention relates to antifungal peptides (see
CC AAB65301-B65550) derived from Domain III (amino acids 142-169) of
CC bactericidal/permeability-increasing protein (BPI). The present sequence
CC is one such antifungal peptide. BPI is a protein isolated from the
CC granules of mammalian polymorphonuclear leukocytes (PMNs or
CC neutrophils). BPI has potent bactericidal activity against a broad range
CC of gram-negative bacteria. The peptides of the present invention are
CC useful for killing or inhibiting replication of fungi, and treating
CC infections caused by fungus belonging to Candida, Aspergillus,
CC Cryptococcus species such as C.albicans, C.glabrata, C.krusei,
CC C.lusitanae, C.parapsilosis and C.tropicalis.
XX
SQ Sequence 10 AA:
Query Match 100.0%; Score 57; DB 22; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0016;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
DB 1 KWLQLFHKK 10
1111111111

RESULT 82
AAE26312
ID AAE26312 standard; peptide: 10 AA.
XX
AC AAE26312;
XX
DT 14-NOV-2002 (first entry)
XX
DE Human rBPI protein product, XMP.365.
XX
KW Human; bactericidal/permeability-increasing protein; BPI; brain injury;

```


PR 22-MAR-1995; 96US-0621803.

XX (XOMA) XOMA CORP.

XX Better MD;

XX WPI; 1997-480215/44.

XX Recombinant production of bactericidal/permeability increasing

PT protein - by expression as a fusion protein in microbial host cells,

PT then cleaving the BPI peptide from the carrier

PS Claim 10; Page 131; 186pp; English.

XX A new recombinant DNA vector construct has been developed which encodes
CC a fusion protein and is suitable for introduction into a bacterial host.
CC The vector comprises: (a) DNA encoding at least one cationic
CC bactericidal/permeability increasing peptide (BPI); (b) DNA encoding a
CC carrier protein, and (c) DNA encoding an amino acid (aa) cleavage site
CC located between (a) and (b). The present sequence represents a
CC specifically claimed BPI peptide. The peptides have many uses including
CC the treatment of bacterial and fungal infections. BPI peptides also
CC bind to endotoxins and heparin, neutralising their effects. The
CC peptides have further been shown to inhibit angiogenesis (partly due to
CC heparin-binding activity). The fusion proteins have been found to be
CC expressed in large amounts without significant proteolysis, and in some
CC cases are actually secreted from the host cells. This allows the
CC indirect production of anti-microbial BPI peptides in microbial hosts.

XX Sequence 11 AA;

Query Match 100.0%; Score 57; DB 12; Length 11;

Best Local Similarity 100.0%; Pred. No. 0.0015;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFPHKK 10

DB 2 KWLQLFPHKK 11

RESULT 87

AAW43711

ID AAW43711 standard; peptide; 11 AA.

XX

AC AAW43711;

D7 20-APR-1998 (first entry)

XX Bactericidal/permeability increasing peptide XMP.289.

XX Bactericidal/permeability increasing peptide; BPI; fusion protein;

KW bacterial infection; fungal infection; endotoxin; heparin;

KW angiogenesis; fungicidal; recombinant DNA; vector.

XX

OS Homo sapiens.

OS Synthetic.

XX

Key Location/Qualifiers

FT Modified-site 11

FT /note= "Amidated"

XX

PN W09735009-A1.

XX

PD 25-SEP-1997.

XX

PF 18-MAR-1997; 97WO-US05287.

XX

PR 22-MAR-1996; 96US-0621803.

XX

PA (XOMA) XOMA CORP.

XX

PI Better MD;

DR WPI; 1997-480215/44.

XX Recombinant production of bactericidal/permeability increasing

PT protein - by expression as a fusion protein in microbial host cells,

PT then cleaving the BPI peptide from the carrier

XX

PS Claim 10; Page 111; 186pp; English.

XX A new recombinant DNA vector construct has been developed which encodes
CC a fusion protein and is suitable for introduction into a bacterial host.
CC The vector comprises: (a) DNA encoding at least one cationic
CC bactericidal/permeability increasing peptide (BPI); (b) DNA encoding a
CC carrier protein, and (c) DNA encoding an amino acid (aa) cleavage site
CC located between (a) and (b). The present sequence represents a
CC specifically claimed BPI peptide. The peptides have many uses including
CC the treatment of bacterial and fungal infections. BPI peptides also
CC bind to endotoxins and heparin, neutralising their effects. The
CC peptides have further been shown to inhibit angiogenesis (partly due to
CC heparin-binding activity). The fusion proteins have been found to be
CC expressed in large amounts without significant proteolysis, and in some
CC cases are actually secreted from the host cells. This allows the
CC indirect production of anti-microbial BPI peptides in microbial hosts.

XX Sequence 11 AA;

Query Match 100.0%; Score 57; DB 18; Length 11;

Best Local Similarity 100.0%; Pred. No. 0.0018;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFPHKK 10

DB 2 KWLQLFPHKK 11

RESULT 88

AAW44521

ID AAW44521 standard; peptide; 11 AA.

XX

AC AAW44521;

D7 27-APR-1998 (first entry)

XX Anti-fungal peptide #122 based on BPI protein (residues 142-169).

XX Anti-fungal peptide; bactericidal-permeability-increasing protein; BPI;

KW polymorphonuclear leukocyte; fungicide.

XX

OS Synthetic.

OS Mammalia.

XX

Key Location/Qualifiers

FT Modified-site 11

FT /note= "C-terminal amide"

XX

PN W09704008-A1.

XX

PC 06-FEB-1997.

XX

PF 21-MAR-1996; 96WO-US03845.

XX

PR 20-JUL-1995; 95US-0504841.

XX

PA (XOMA) XOMA CORP.

XX

PI Fadem MB, Lim E, Little RG;

XX

WPI; 1997-132578/12.

XX

PT Anti-fungal peptide(s) derived from or based on domain III of

PT bactericidal-permeability-increasing protein - are used in vitro or

PT in vivo as a fungicides

XX

PS Claim 1; Page 176; 230pp; English.

XX This is a specifically claimed anti-fungal peptide which is based on
 CC domain III (amino acids 142-160) of bactericidal/permeability-increasing
 CC protein (BPI), isolated from the granules of mammalian polymorphonuclear
 CC leukocytes. It is used in compositions with diluents, carriers or
 CC adjuvants to treat fungal infections in patients. It may also be used in
 CC vitro to kill or inhibit the replication of fungi, such as in
 CC decontaminating fluids and sterilising medical and implant devices.
 XX

SQ Sequence 11 AA:

Query Match 100.0%; Score 57; DB 18; Length 11;
 Best Local Similarity 100.0%; Pred. No. 0.0018;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 KWLQLFHKK 10
 DB 2 KWLQLFHKK 11

RESULT 89

AAAY00559
 ID AAY00559 standard; Peptide: 11 AA.

XX AC AAY00559;

XX DT 07-MAY-1999 (first entry)

XX DE Antifungal peptide XMP.352.

XX KW Antifungal; BPI: bactericidal/permeability increasing protein;
 CC Candida infection.

XX OS Synthetic.

XX PN US5858974-A.

XX PD 12-JAN-1999.

XX PF 21-MAR-1996; 96US-0621259.

XX PR 21-MAR-1996; 96US-0621259.

XX PS 20-JUL-1995; 95US-0504841.

XX PA (XOMA) XOMA CORP.

XX PI Fadem MB, Lim E, Little RG;

XX DR WPI: 1999-119956/10.

XX PT Antifungal peptides - comprising part of bactericidal or
 permeability-increasing protein sequence or related sequence

XX PS Disclosure: Columns 181-182; 132pp; English.

XX CC New peptides are provided which are based on Domain III (amino acids
 CC 142-169) of human bactericidal/permeability-increasing protein (BPI).
 CC The peptides all have a C-terminal amide. More particularly, the Claims
 CC relate to: (1) a peptide that has an amino acid sequence of human BPI
 CC from position 148 to position 161 (KSKVGLIQLFHKK) and variants of the
 CC sequence having antifungal activity; and (2) an antifungal peptide
 CC having 6-14 amino acids comprising (a) a core sequence selected from:
 CC LIQL, IQLF, WLQL, LIQLF and WLQLF and (b) one or more cationic amino
 CC acids selected from K, R, H, Orn (ornithine) and Dab (diaminobutyric
 CC acid) at the N and/or C terminus of the core sequence. The new peptides
 CC are used for killing or inhibiting replication of fungi in vitro; and
 CC for treating fungal infections in vivo, in particular infections of
 CC Candida, Aspergillus or Cryptococcus spp., especially C. albicans, C.
 CC krusei, C. lusitanae, C. parapsilosis or C. tropicalis. The peptide
 CC can be administered topically, intravenously, orally or as an aerosol,
 CC optionally together with a non-peptide antifungal agent.

XX SQ Sequence 11 AA:

Query Match 100.0%; Score 57; DB 20; Length 11;
 Best Local Similarity 100.0%; Pred. No. 0.0018;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 KWLQLFHKK 10

DB 2 KWLQLFHKK 11

RESULT 90

AAAY00498
 ID AAY00498 standard; Peptide: 11 AA.

XX AC AAY00498;

XX DT 07-MAY-1999 (first entry)

XX DE Antifungal peptide XMP.289.

XX KW Antifungal; BPI: bactericidal/permeability increasing protein;
 CC Candida infection.

XX OS Synthetic.

XX PN US5858974-A.

XX PD 12-JAN-1999.

XX PF 21-MAR-1996; 96US-0621259.

XX PR 21-MAR-1996; 96US-0621259.

XX PS 20-JUL-1995; 95US-0504841.

XX PA (XOMA) XOMA CORP.

XX PI Fadem MB, Lim E, Little RG;

XX DR WPI: 1999-119956/10.

XX PT Antifungal peptides - comprising part of bactericidal or
 permeability-increasing protein sequence or related sequence

XX PS Disclosure: Columns 141-142; 132pp; English.

XX CC New peptides are provided which are based on Domain III (amino acids
 CC 142-169) of human bactericidal/permeability-increasing protein (BPI).
 CC The peptides all have a C-terminal amide. More particularly, the Claims
 CC relate to: (1) a peptide that has an amino acid sequence of human BPI
 CC from position 148 to position 161 (KSKVGLIQLFHKK) and variants of the
 CC sequence having antifungal activity; and (2) an antifungal peptide
 CC having 6-14 amino acids comprising (a) a core sequence selected from:
 CC LIQL, IQLF, WLQL, LIQLF and WLQLF and (b) one or more cationic amino
 CC acids selected from K, R, H, Orn (ornithine) and Dab (diaminobutyric
 CC acid) at the N and/or C terminus of the core sequence. The new peptides
 CC are used for killing or inhibiting replication of fungi in vitro; and
 CC for treating fungal infections in vivo, in particular infections of
 CC Candida, Aspergillus or Cryptococcus spp., especially C. albicans, C.
 CC krusei, C. lusitanae, C. parapsilosis or C. tropicalis. The peptide
 CC can be administered topically, intravenously, orally or as an aerosol,
 CC optionally together with a non-peptide antifungal agent.

XX SQ Sequence 11 AA:

Query Match 100.0%; Score 57; DB 20; Length 11;
 Best Local Similarity 100.0%; Pred. No. 0.0018;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 KWLQLFHKK 10

DB 2 KWLQLFHKK 11

RESULT 91

AAB65422
ID AAB65422 standard; Peptide; 11 AA.

XX AC AAB65422;
XX

DT 27-MAR-2001 (first entry)

XX DE Anti-fungal peptide XMP.289.

XX KW Human; BPI; antifungal; polymorphonuclear leukocyte; neutrophil;
KW bactericidal/permeability-increasing protein; bactericidal;
KW fungal infection.

XX OS Homo sapiens.

XX PN US6156730-A.

XX PD 05-DEC-2000.

XX PF 08-JAN-1999; 99US-0227659.

XX PR 21-MAR-1996; 96US-0621259.

XX PR 12-MAR-1993; 93US-0030644.

XX PR 15-JUL-1993; 93US-0093202.

XX PR 14-JAN-1994; 94US-0183222.

XX PR 11-MAR-1994; 94US-0209762.

XX PR 11-JUL-1994; 94US-0273540.

XX PR 15-SEP-1994; 94US-0306473.

XX PR 13-JAN-1995; 95US-0372105.

XX PR 20-JUL-1995; 95US-0504841.

XX PA (XOMA) XOMA CORP.

XX PI Lim E, Fadem MB, Little RG;

XX DR WPI; 2001-090160/10.

XX PT Novel anti-fungal peptides derived from domain III of
PT bactericidal/permeability-increasing protein useful for killing or
PT inhibiting replication of fungi and for treating fungal infections

XX PS Example 2: Columns 143-144; 134pp; English.

XX CC The present invention relates to antifungal peptides (see
CC AAB65301-B65550) derived from Domain III (amino acids 142-169) of
CC bactericidal/permeability-increasing protein (BPI). The present sequence
CC is one such antifungal peptide. BPI is a protein isolated from the
CC granules of mammalian polymorphonuclear leukocytes (PMNs or
CC neutrophils). BPI has potent bactericidal activity against a broad range
CC of gram-negative bacteria. The peptides of the present invention are
CC useful for killing or inhibiting replication of fungi, and treating
CC infections caused by fungus belonging to Candida, Aspergillus,
CC Cryptococcus species such as C.albicans, C.glabrata, C.krusei,
CC C.lusitanae, C.parapsilosis and C.tropicalis.

XX SQ Sequence 11 AA;

Query Match 100.0%; Score 57; DB 22; Length 11;

Best Local Similarity 100.0%; Pred. No. 0.0018;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10

DB 2 KWLQLFHKK 1;

RESULT 92

AAB65483

ID AAB65483 standard; Peptide; 11 AA.

XX AC AAB65483;

XX

DT 27-MAR-2001 (first entry)

XX DE Anti-fungal peptide XMP.352.

XX KW Human; BPI; antifungal; polymorphonuclear leukocyte; neutrophil;
KW bactericidal/permeability-increasing protein; bactericidal;
KW fungal infection.

XX OS Homo sapiens.

XX PN US6156730-A.

XX PD 05-DEC-2000.

XX PF 08-JAN-1999; 99US-0227659.

XX PR 21-MAR-1996; 96US-0621259.

XX PR 12-MAR-1993; 93US-0030644.

XX PR 15-JUL-1993; 93US-0093202.

XX PR 14-JAN-1994; 94US-0183222.

XX PR 11-MAR-1994; 94US-0209762.

XX PR 11-JUL-1994; 94US-0273540.

XX PR 15-SEP-1994; 94US-0306473.

XX PR 13-JAN-1995; 95US-0372105.

XX PR 20-JUL-1995; 95US-0504841.

XX PA (XOMA) XOMA CORP.

XX PI Lim E, Fadem MB, Little RG;

XX DR WPI; 2001-090160/10.

XX PT Novel anti-fungal peptides derived from domain III of
PT bactericidal/permeability-increasing protein useful for killing or
PT inhibiting replication of fungi and for treating fungal infections

XX PS Example 2: Columns 187-188; 134pp; English.

XX CC The present invention relates to antifungal peptides (see
CC AAB65301-B65550) derived from Domain III (amino acids 142-169) of
CC bactericidal/permeability-increasing protein (BPI). The present sequence
CC is one such antifungal peptide. BPI is a protein isolated from the
CC granules of mammalian polymorphonuclear leukocytes (PMNs or
CC neutrophils). BPI has potent bactericidal activity against a broad range
CC of gram-negative bacteria. The peptides of the present invention are
CC useful for killing or inhibiting replication of fungi, and treating
CC infections caused by fungus belonging to Candida, Aspergillus,
CC Cryptococcus species such as C.albicans, C.glabrata, C.krusei,
CC C.lusitanae, C.parapsilosis and C.tropicalis.

XX SQ Sequence 11 AA;

Query Match 100.0%; Score 57; DB 22; Length 11;

Best Local Similarity 100.0%; Pred. No. 0.0018;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10

DB 2 KWLQLFHKK 11

RESULT 93

AAW04001

ID AAW04001 standard; peptide; 12 AA.

XX AC AAW04001;

XX DT 31-OCT-1996 (first entry)

XX DE Antifungal peptide XMP.286.

XX KW Antifungal peptide; inhibitor; Domain III; polymorphonuclear leukocyte;
KW bactericidal/permeability-increasing protein; BPI; mammalian; PMN; fungi;

KW neutrophil; replication inhibitor; fungal infection; Aspergillus;
 KW Cryptococcus; Candida; C.albicans; C.glabrati; C.krusei; C.lusitanae;
 KW C.parapsilosis; C.tropicalis; therapy.
 CS Synthetic.
 XX Key
 FH Location/Qualifiers
 FT Modified-site 12
 FT /note- "amidated"
 XX
 PN WO9608509-A1.
 XX
 PD 21-MAR-1996.
 XX
 PF 20-JUL-1995; 95WO-US09262.
 XX
 PR 13-JAN-1995; 95US-0372105.
 PR 15-SEP-1994; 94US-0306473.
 XX
 PA (XOMA) XOMA CORP.
 XX
 PI Fadem MB, Lim E, Little HG;
 XX WPI: 1996-179900/18.
 XX Antifungal peptide(s) derived from Domain III of BPI protein - used
 PT in vitro for killing or inhibiting replication of fungi, esp.
 PT Candida species
 XX
 PS Claim 5; Page 138; 199pp; English.
 XX
 CC AAW04000-W04160 represent antifungal peptides. These sequences are
 CC based on (or derived from) Domain III of the
 CC bactericidal/permeability-increasing protein (BPI). BPI is a protein
 CC that can be isolated from the granules of mammalian polymorphonuclear
 CC leukocytes (PMNs or neutrophils). These antifungal peptides can be used
 CC for killing, or inhibiting replication of, fungi in vitro. These
 CC sequences can also be used for treatment of a fungal infection involving
 CC fungi from the species Candida, Aspergillus and Cryptococcus. The
 CC sequences are especially useful for treating C.albicans, C.glabrati,
 CC C.krusei, C.lusitanae, C.parapsilosis and C.tropicalis infections.
 XX
 SQ Sequence 12 AA:
 Query Match 100.0%; Score 57; DB 17; Length 12;
 Best Local Similarity 100.0%; Pred. No. 0.0019;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 KWLIOLFHKK 10
 DB 3 KWLIOLFHKK 12
 RESULT 94
 AAW43708
 ID AAW43708 standard; peptide: 12 AA.
 AC AAW43708;
 XX
 DT 20-APR-1998 (first entry)
 XX
 DE Bactericidal/permeability increasing peptide XMP 256.
 KW Bactericidal/permeability increasing peptide; BPI; fusion protein;
 KW bacterial infection; fungal infection; endotoxin; heparin;
 KW angiogenesis; fungicidal; recombinant DNA; vector.
 XX
 OS Homo sapiens.
 OS Synthetic.
 XX
 FH Key
 FT Modified-site 12
 FT /note- "Amidated"

XX WO9735009-A1.
 PN
 XX 25-SEP-1997.
 XX
 PF 18-MAR-1997; 97WO-US05287.
 XX
 PR 22-MAR-1996; 96US-0621803.
 XX
 PA (XOMA) XOMA CORP.
 XX
 PI Better MD;
 XX WPI: 1997-480215/44.
 XX Recombinant production of bactericidal/permeability increasing
 PT protein - by expression as a fusion protein in microbial host cells,
 PT then cleaving the BPI peptide from the carrier
 XX
 PS Claim 10; Page 110; 186pp; English.
 XX
 CC A new recombinant DNA vector construct has been developed which encodes
 CC a fusion protein and is suitable for introduction into a bacterial host.
 CC The vector comprises: (a) DNA encoding at least one cationic
 CC bactericidal/permeability increasing peptide (BPI); (b) DNA encoding a
 CC carrier protein, and (c) DNA encoding an amino acid (aa) cleavage site
 CC located between (a) and (b). The present sequence represents a
 CC specifically claimed BPI peptide. The peptides have many uses including
 CC the treatment of bacterial and fungal infections. BPI peptides also
 CC bind to endotoxins and heparin, neutralising their effects. The
 CC peptides have further been shown to inhibit angiogenesis (partly due to
 CC heparin-binding activity). The fusion proteins have been found to be
 CC expressed in large amounts without significant proteolysis, and in some
 CC cases are actually secreted from the host cells. This allows the
 CC indirect production of anti-microbial BPI peptides in microbial hosts.
 XX
 SQ Sequence 12 AA:
 Query Match 100.0%; Score 57; DB 18; Length 12;
 Best Local Similarity 100.0%; Pred. No. 0.0019;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 KWLIOLFHKK 10
 DB 3 KWLIOLFHKK 12
 RESULT 95
 AAW44518
 ID AAW44518 standard; peptide: 12 AA.
 XX
 AC AAW44518;
 XX
 DT 27-APR-1998 (first entry)
 XX
 DE Anti-fungal peptide #119 based on BPI protein (residues 142-169).
 KW Anti-fungal peptide; bactericidal-permeability-increasing protein; BPI;
 KW polymorphonuclear leukocyte; fungicide.
 XX
 OS Synthetic.
 OS Mammalia.
 XX
 FH Key
 FT Modified-site 12
 FT /note- "C-terminal amide"
 XX
 PN WO9704003-A1.
 XX
 PD 06-FEB-1997.
 XX
 PF 21-MAR-1996; 96WO-US03845.
 XX

PR 20-JUL-1995; 95US-0504841.

XX (XOMA) XOMA CORP.

PI Fadem MB, Lim E, Little RG;

DR WPI: 1997-132578/12.

XX Anti-fungal peptide(s) derived from or based on domain III of
PT bactericidal/permeability-increasing protein - are used in vitro or
PT in vivo as a fungicides

XX Claim 1; Page 175; 230pp; English.

XX This is a specifically claimed anti-fungal peptide which is based on
CC domain III (amino acids 142-160) of bactericidal/permeability-increasing
CC protein (BPI), isolated from the granules of mammalian polymorphonuclear
CC leukocytes. It is used in compositions with diluents, carriers or
CC adjuvants to treat fungal infections in patients. It may also be used in
CC vitro to kill or inhibit the replication of fungi, such as in
CC decontaminating fluids and sterilising medical and implant devices.

XX Sequence 12 AA;

Query Match 100.0%; Score 57; DB 18; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.0019;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 KWLQLFHHK 10

DB 3 KWLQLFHHK 12

RESULT 96

AAY00495

ID AAY00495 standard; Peptide: 12 AA.

AC AAY00495;

XX 07-MAY-1999 (first entry)

XX Anti-fungal peptide XMP.286.

XX Antifungal; BPI: bactericidal/permeability increasing protein;
KW Candida infection.

XX Synthetic.

XX US5858974-A.

XX 12-JAN-1999.

XX 21-MAR-1996; 96US-0621259.

XX 21-MAR-1996; 96US-0621259.

XX 20-JUL-1995; 95US-0504841.

XX (XOMA) XOMA CORP.

XX Fadem MB, Lim E, Little RG;

XX WPI: 1999-119956/10.

XX Antifungal peptides - comprising part of bactericidal or
PT permeability-increasing protein sequence or related sequence

XX Disclosure; Columns 139-140; 132pp; English.

XX New peptides are provided which are based on Domain III (amino acids
CC 142-169) of human bactericidal/permeability-increasing protein (BPI).
CC The peptides all have a C-terminal amide. More particularly, the Claims
CC relate to: (1) a peptide that has an amino acid sequence of human BPI
CC from position 148 to position 161 (RSKVGWLQLFHHK) and variants of the

CC sequence having antifungal activity; and (2) an antifungal peptide
CC having 6-14 amino acids comprising (a) a core sequence selected from
CC LQL, LQLF, WLQL, LQLF and WLQLF and (b) one or more cationic amino
CC acids selected from K, R, H, Orn (ornithine) and Dab (diaminobutyric
CC acid) at the N and/or C terminus of the core sequence. The new peptides
CC are used for killing or inhibiting replication of fungi in vitro; and
CC for treating fungal infections in vivo, in particular infections of
CC Candida, Aspergillus or Cryptococcus spp., especially C. albicans. C.
CC krusei, C. lusitanae, C. parapsilosis or C. tropicalis. The peptide
CC can be administered topically, intravenously, orally or as an aerosol,
CC optionally together with a non-peptide antifungal agent.

XX Sequence 12 AA;

Query Match 100.0%; Score 57; DB 20; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.0019;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 KWLQLFHHK 10

DB 3 KWLQLFHHK 12

RESULT 97

AAB65419

ID AAB65419 standard; Peptide: 12 AA.

XX AAB65419;

XX 27-MAR-2001 (first entry)

XX Anti-fungal peptide XMP.286.

XX Human; BPI: antifungal; polymorphonuclear leukocyte; neutrophil;
KW bactericidal/permeability-increasing protein; bactericidal;
KW fungal infection.

XX Homo sapiens.

XX US6156730-A.

XX 05-DEC-2000.

XX 08-JAN-1999; 99US-0227659.

XX 21-MAR-1996; 96US-0621259.

XX 12-MAR-1993; 93US-0030644.

XX 15-JUL-1993; 93US-0033202.

XX 14-JAN-1994; 94US-0183222.

XX 11-MAR-1994; 94US-0209762.

XX 11-JUL-1994; 94US-0273540.

XX 15-SEP-1994; 94US-0306473.

XX 13-JAN-1995; 95US-0372105.

XX 20-JUL-1995; 95US-0504841.

XX (XOMA) XOMA CORP.

XX Lim E, Fadem MB, Little RG;

XX WPI: 2002-090160/10.

XX Novel anti-fungal peptides derived from domain III of
PT bactericidal/permeability-increasing protein useful for killing or
PT inhibiting replication of fungi and for treating fungal infections -

XX Example 2; Columns 143-144; 134pp; English.

XX The present invention relates to antifungal peptides (see
CC AAB65301-B65550) derived from Domain III (amino acids 142-169) of
CC bactericidal/permeability-increasing protein (BPI). The present sequence
CC is one such antifungal peptide. BPI is a protein isolated from the
CC granules of mammalian polymorphonuclear leukocytes (PMNs or
CC neutrophils). BPI has potent bactericidal activity against a broad range

CC of gram-negative bacteria. The peptides of the present invention are
 CC useful for killing or inhibiting replication of fungi, and treating
 CC infections caused by fungus belonging to Candida, Aspergillus,
 CC Cryptococcus species such as C.albicans, C.glabrata, C.krusei,
 CC C.lusitanae, C.parapsilosis and C.tropicalis.

XX
 SQ Sequence 12 AA:

Query Match 100.0%; Score 57; DB 23; Length 12;
 Best Local Similarity 100.0%; Pred. No. 0.0021;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
 |||||
 DB 3 KWLQLFHKK 12

RESULT 98
 AAW04053
 ID AAW04053 standard; peptide: 12 AA:

XX AC AAW04053;

XX DI 04-NOV-1996 (first entry)

XX DE Antifungal peptide XMP.284.

XX KW Antifungal peptide; inhibitor; Domain I1; polymorphonuclear leukocyte;
 KW bactericidal/permeability-increasing protein; BPI; mammalian; PMN; fungi;
 KW neutrophil; replication inhibitor; fungal infection; Aspergillus;
 KW Cryptococcus; Candida; C.albicans; C.glabrata; C.krusei; C.lusitanae;
 KW C.parapsilosis; C.tropicalis; therapy.

XX OS Synthetic.

XX FH Key Location/Qualifiers
 FT Modified-site 13 /note= "amidated"

XX PI WO9608509-A1.

XX PD 21-MAR-1996.

XX PF 20-JUL-1995; 95WO-US03262.

XX PR 13-JAN-1995; 95US-0372105.

XX PR 15-SEP-1994; 94US-0306473.

XX PA (XOMA) XOMA CORP.

XX PI Padem MB, Lim E, Little RG;

XX DR WPI; 1996-179900/18.

XX PT Antifungal peptide(s) derived from Domain I1 of BPI protein - used
 PT in vitro for killing or inhibiting replication of fungi, esp.
 PT Candida species

XX PS Claim 14; Page 137; 199pp; English.

XX XX AAW04000-W04160 represent antifungal peptides. These sequences are
 CC based on (or derived from) Domain III of the
 CC bactericidal/permeability-increasing protein (BPI). BPI is a protein
 CC that can be isolated from the granules of mammalian polymorphonuclear
 CC leukocytes (PMNs or neutrophils). These antifungal peptides can be used
 CC for killing, or inhibiting replication of, fungi in vitro. These
 CC sequences can also be used for treatment of a fungal infection involving
 CC fungi from the species Candida, Aspergillus and Cryptococcus. The
 CC sequences are especially useful for treating C.albicans, C.glabrata,
 CC C.krusei, C.lusitanae, C.parapsilosis and C.tropicalis infections.

XX SQ Sequence 13 AA:

Query Match 100.0%; Score 57; DB 17; Length 13;
 Best Local Similarity 100.0%; Pred. No. 0.0021;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
 |||||
 DB 4 KWLQLFHKK 13

RESULT 99
 AAW43706
 IC AAW43706 standard; peptide: 13 AA:

XX AC AAW43706;

XX CT 20-APR-1998 (first entry)

XX DE Bactericidal/permeability increasing peptide XMP.284.

XX KW Bactericidal/permeability increasing peptide; BPI; fusion protein;
 KW bacterial infection; fungal infection; endotoxin; heparin;
 KW angiogenesis; fungicidal; recombinant DNA; vector.

XX OS Homo sapiens.

XX OS Synthetic.

XX FH Key Location/Qualifiers
 FT Modified-site 13 /note= "Amidated"

XX PN WO9735009-A1.

XX PD 25-SEP-1997.

XX PF 18-MAR-1997; 97WO-US05287.

XX PR 22-MAR-1996; 96US-0621803.

XX PA (XOMA) XOMA CORP.

XX PI Better MD;

XX PS WPI; 1997-480215/44.

XX PT Recombinant production of bactericidal/permeability increasing
 PT protein - by expression as a fusion protein in microbial host cells,
 PT then cleaving the BPI peptide from the carrier

XX PS Claim 10; Page 110; 186pp; English.

XX CC A new recombinant DNA vector construct has been developed which encodes
 CC a fusion protein and is suitable for introduction into a bacterial host.
 CC The vector comprises: (a) DNA encoding at least one cationic
 CC bactericidal/permeability increasing peptide (BPI); (b) DNA encoding a
 CC carrier protein, and (c) DNA encoding an amino acid (aa) cleavage site
 CC located between (a) and (b). The present sequence represents a
 CC specifically claimed BPI peptide. The peptides have many uses including
 CC the treatment of bacterial and fungal infections. BPI peptides also
 CC bind to endotoxins and heparin, neutralising their effects. The
 CC peptides have further been shown to inhibit angiogenesis (partly due to
 CC heparin-binding activity). The fusion proteins have been found to be
 CC expressed in large amounts without significant proteolysis, and in some
 CC cases are actually secreted from the host cells. This allows the
 CC indirect production of anti-microbial BPI peptides in microbial hosts.

XX SQ Sequence 13 AA:

Query Match 100.0%; Score 57; DB 18; Length 13;
 Best Local Similarity 100.0%; Pred. No. 0.0021;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
 |||||

Db 4 KWLQLFHKK 13

RESULT 100

AAW44516
ID AAW44516 standard; peptide; 13 AA.

XX AC AAW44516;

XX DT 27-APR-1998 (first entry)

XX DE Anti-fungal peptide #117 based on BPI protein (residues 142-165).

XX KW Anti-fungal peptide; bactericidal-permeability-increasing protein: BPI;

XX KW polymorphonuclear leukocyte; fungicide.

XX OS Synthetic.

XX OS Mammalia.

XX FH Key Location/Qualifiers

FT Modified-site 13

FT /note- "C-terminal amide"

XX PN WO9704038-A1.

XX PN 06-FEB-1997.

XX PF 21-MAR-1996; 96WO-US03845.

XX PR 20-JUL-1995; 95US-0504841.

XX PA (XOMA) XOMA CORP.

XX PI Padem MB, Lim E, Little RG;

XX DR WPI: 1997-132578/12.

XX PT Anti-fungal peptide(s) derived from or based on domain III of

PT bactericidal-permeability-increasing protein - are used in vitro or

PT in vivo as a fungicides

XX PS Claim 1: Page 174: 230pp; English.

XX CC This is a specifically claimed anti-fungal peptide which is based on
CC domain III (amino acids 142-160) of bactericidal-permeability-increasing
CC protein (BPI), isolated from the granules of mammalian polymorphonuclear
CC leukocytes. It is used in compositions with diluents, carriers or
CC adjuvants to treat fungal infections in patients. It may also be used in
CC vitro to kill or inhibit the replication of fungi, such as in
CC decontaminating fluids and sterilising medical and implant devices.

XX SQ Sequence 13 AA;

Query Match 100.0%; Score 57; DB 18; Length 13;

Best Local Similarity 100.0%; Pred. No. 0.0021;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10

Db 4 KWLQLFHKK 13

RESULT 101

AAV00493

ID AAV00493 standard; Peptide; 13 AA.

XX AC AAV00493;

XX DT 07-MAY-1999 (first entry)

XX DE Antifungal peptide XMP.284.

XX KW Antifungal; BPI; bactericidal/permeability increasing protein;

XX Candida infection.

XX CS Synthetic.

XX PN US5856974-A.

XX PD 12-JAN-1999.

XX PF 21-MAR-1996; 96US-0621259.

XX PR 21-MAR-1996; 96US-0621259.

XX PR 20-JUL-1995; 95US-0504841.

XX PA (XOMA) XOMA CORP.

XX PI Padem MB, Lim E, Little RG;

XX DR WPI: 1999-119956/10.

XX PT Antifungal peptides - comprising part of bactericidal or
PT permeability-increasing protein sequence or related sequence

XX PS Disclosure: Columns 137-138; 132pp; English.

XX CC New peptides are provided which are based on Domain III (amino acids
CC 142-165) of human bactericidal/permeability-increasing protein (BPI).
CC The peptides all have a C-terminal amide. More particularly, the Claims
CC relate to: (1) a peptide that has an amino acid sequence of human BPI
CC from position 148 to position 161 (KSKVGLQLFHKK) and variants of the
CC sequence having antifungal activity; and (2) an antifungal peptide
CC having 6-14 amino acids comprising (a) a core sequence selected from
CC LIG, IQLF, WLQL, LQLF and WLQLF and (b) one or more cationic amino
CC acids selected from K, R, H, Orn (ornithine) and Dab (diaminobutyric
CC acid) at the N and/or C terminus of the core sequence. The new peptides
CC are used for killing or inhibiting replication of fungi in vitro, and
CC for treating fungal infections in vivo, in particular infections of
CC Candida, Aspergillus or Cryptococcus spp., especially C. albicans, C.
CC Krusei, C. lusitanae, C. parapsilosis or C. tropicalis. The peptide
CC can be administered topically, intravenously, orally or as an aerosol,
CC optionally together with a non-peptide antifungal agent.

XX SQ Sequence 13 AA;

Query Match 100.0%; Score 57; DB 20; Length 13;

Best Local Similarity 100.0%; Pred. No. 0.0021;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10

Db 4 KWLQLFHKK 13

RESULT 102

AA65417

ID AA65417 standard; Peptide; 13 AA.

XX AC AA65417;

XX DT 27-MAR-2001 (first entry)

XX DE Anti-fungal peptide XMP.284.

XX KW Human; BPI; antifungal; polymorphonuclear leukocyte; neutrophil;
KW bactericidal/permeability-increasing protein; bactericidal;
KW fungal infection.

XX OS Homo sapiens.

XX PN US6156730-A.

XX PD 05-DEC-2000.

XX PF 08-JAN-1999; 99US-0227659.

XX 21-MAR-1996; 96US-0621259.
 PR 12-MAR-1993; 93US-0030644.
 PR 15-JUL-1993; 93US-0093202.
 PR 14-JAN-1994; 94US-0183222.
 PR 11-MAR-1994; 94US-0205762.
 PR 11-JUL-1994; 94US-0273540.
 PR 15-SEP-1994; 94US-0306473.
 PR 13-JAN-1995; 95US-0372105.
 PR 20-JUL-1995; 95US-0504841.
 XX (XOMA) XOMA CORP.
 XX
 PI Lim E, Fadem MB, Little RG;
 XX
 DR WPI: 2001-090160/10.
 XX
 PT Novel anti-fungal peptides derived from domain III of
 PT bactericidal/permeability-increasing protein useful for killing or
 PT inhibiting replication of fungi and for treating fungal infections
 XX
 PS Example 2; Columns 141-142; 134pp; English.
 XX
 CC The present invention relates to antifungal peptides (see
 CC AAR65501-865550) derived from Domain III (amino acids 142-169) of
 CC bactericidal/permeability-increasing protein (BPI). The present sequence
 CC is one such antifungal peptide. BPI is a protein isolated from the
 CC granules of mammalian polymorphonuclear leukocytes (PMNs or
 CC neutrophils). BPI has potent bactericidal activity against a broad range
 CC of gram-negative bacteria. The peptides of the present invention are
 CC useful for killing or inhibiting replication of fungi, and treating
 CC infections caused by fungus belonging to Candida, Aspergillus,
 CC Cryptococcus species such as C.albicans, C.glabrata, C.krusei,
 CC C.lusitanae, C.parapsilosis and C.tropicalis.
 XX
 SQ Sequence 13 AA;

Query Match 100.0%; Score 57; DB 22; Length 13;
 Best Local Similarity 100.0%; Pred. No. 0.0021;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
 DB 4 KWLQLFHKK 13

RESULT 103
 AAR62100
 ID AAR62100 standard; peptide: 14 AA.
 XX
 AC AAR62100;

DT 25-MAR-2003 (updated);
 DT 03-MAY-1995 (first entry)
 XX
 DE BPI derived peptide, BPI.97.

XX Human; bactericidal/permeability-increasing protein; BPI; heparin;
 KW binding agent; neutralisation; anti-coagulant effect; inhibition;
 KW angiogenesis; ocular retinopathy; endothelial cell proliferation;
 KW contraception; malignant; tumour cell; inflammatory disease; T-cell;
 KW rheumatoid arthritis; gram-negative bacteria; infection; cytokine;
 KW lipopolysaccharide; circulation; compromised immune response; microbe;
 KW macrophage; activation; lymphokine; decontaminating; Helicobacter;
 KW gastritis; peptic ulcer; gastric ulcer; duodenal ulcer; antibiotic;
 KW gentamicin; polymyxin B; cefamandole nafate; LBP protein.
 XX
 OS Homo sapiens.
 XX
 PN W09420532-A1.
 XX
 PD 15-SEP-1994.
 XX

PF 11-MAR-1994; 94WO-US02465.
 XX
 PR 12-MAR-1993; 93US-0030644.
 PR 15-JUL-1993; 93US-0093202.
 PR 14-JAN-1994; 94US-0183222.
 XX (XOMA) XOMA CORP.
 XX
 PI Little RG;
 XX
 DR WPI: 1994-302964/37.
 XX
 PT New human bactericidal permeability increasing peptides - derived
 PT from the functional domains of BPI and having BPI activities such
 PT as bactericidal activity
 XX
 PS Claim 11; Page 160; 254pp; English.

XX The sequences given in AAR63682-750, AAR62087-100 and AAR62491-500 are
 CC peptides derived from human bactericidal/permeability-increasing
 CC protein (BPI). The sequences given in AAR63736-50 and AAR62087-100 are
 CC derived from positions 142-169 of BPI. Peptides such as these may
 CC be used as heparin binding agents, for neutralising the anti-coagulant
 CC effect of heparin, for inhibiting angiogenesis, eg. associated with
 CC ocular retinopathy, for inhibiting endothelial cell proliferation, for
 CC contraception, for inhibiting malignant tumour cell proliferation, for
 CC treating a chronic inflammatory disease state, eg. rheumatoid
 CC arthritis, and for treating gram-negative bacterial infection. The
 CC peptides may also be used for treating a subject suffering from the
 CC adverse effects of the presence of lipopolysaccharide in the circulation,
 CC eg. a compromised immune response to microbes or tumour cells due to
 CC inhibition of macrophage activation by T-cell lymphokines or increased
 CC production of a cytokine, for decontaminating a fluid containing
 CC lipopolysaccharide or for treating a disease associated with Helicobacter
 CC infection, eg. gastritis, peptic ulcer, gastric ulcer or duodenal ulcer.
 CC The peptides can be used with an antibiotic eg. gentamicin, polymyxin B
 CC or cefamandole nafate or LBP protein products. The peptides are pref.
 CC prepared by solid phase synthesis.
 CC (Updated on 25-MAR-2003 to correct PN field.)
 XX
 SQ Sequence 14 AA;

Query Match 100.0%; Score 57; DB 15; Length 14;
 Best Local Similarity 100.0%; Pred. No. 0.0023;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
 DB 5 KWLQLFHKK 14

RESULT 104
 AAR79006
 ID AAR78006 standard; peptide: 14 AA.
 XX
 AC AAR78006;

DT 09-SEP-1996 (first entry)
 DE BPI protein segment 148-161 Lys 152 (C) (XMP.97).

XX Active domain fragment; human; BPI; treatment; infection; SGBP;
 KW bacterial permeability increasing holoprotein; L-phase variant;
 KW susceptible gram-positive bacteria; antibiotic; mycoplasma;
 KW cell wall disruption; Staphylococcus aureus;
 KW Streptococcus pneumoniae; Enterococcus faecalis;
 KW radial diffusion assay.
 XX
 OS Synthetic.
 XX
 PN W09519180-A1.
 XX
 PD 20-JUL-1995.
 XX

XX 13-JAN-1995; 95WO-US00655.
 XX 11-JUL-1994; 94US-0274299.
 XX 14-JAN-1994; 94US-0183222.
 XX 11-MAR-1994; 94US-0209762.
 XX (XOMA) XOMA CORP.
 XX Horowitz A, Lambert LH, Little RG;
 XX WPI: 1995-263714/34.
 XX Treatment of a susceptible gram-positive bacterial infection - using
 XX a bactericidal permeability increasing peptide and an antibiotic
 XX
 XX Example 8; Page 165; 264pp; English.
 XX The present peptide is an active domain fragment of the human
 XX bacterial permeability increasing (BPI) holoprotein, which may be
 XX used to treat a susceptible gram-positive bacterial (GPPB)
 XX infection. BPI fragments, opt. in synergy with antibiotics, kill
 XX SGP by disrupting their cell walls, where the SGP are esp.
 XX L-phase variants of *Staphylococcus aureus*, *Streptococcus*
 XX *pneumoniae* or *Enterococcus faecalis*, or mycoplasma. The in vitro
 XX effects of the peptide on *S. aureus* can be determined by using a
 XX radial diffusion assay, the result of which, given as the no. of
 XX pmol of peptide required to establish a 10 mm square area of
 XX growth inhibition, was no detectable activity up to 5 microg/well.
 XX
 XX Sequence 14 AA;
 XX
 XX Query Match 100.0%; Score 57; DB 16; Length 14;
 XX Best Local Similarity 100.0%; Pred. No. 0.0023;
 XX Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX
 XX QY 1 KWLQLFHKK 10
 XX | | | | | | | | | |
 XX Db 5 KWLQLFHKK 14
 XX
 XX RESULT 105
 XX AAR81070
 XX ID AAR81070 standard; Peptide: 14 AA.
 XX AC AAR81070;
 XX DT 09-MAY-1996 (first entry)
 XX
 XX BPI.97, domain III derived peptide (single amino acid substitution).
 XX bactericidal/permeability increasing peptide; BPI; heparin; binding;
 XX neutralisation; lipopolysaccharide; LPS; bactericidal activity;
 XX treatment; neutralise endotoxin; inhibit angiogenesis;
 XX inhibit tumour formation; proliferation.
 XX Synthetic.
 XX OS WO9519372-AL.
 XX PN 20-JUL-1995.
 XX PD 15-SEP-1994; 94WO-US10427.
 XX PF 11-MAR-1994; 94US-0209762.
 XX PR 14-JAN-1994; 94US-0183222.
 XX (XOMA) XOMA CORP.
 XX PA Little RG;
 XX PI WPI: 1995-263828/34.
 XX DR
 XX

PI New peptide(s) based on bactericidal/permeability-increasing protein
 PI - Having heparin binding and neutralisation, LPS binding and
 PI neutralisation and antimicrobial activities
 XX
 XX Claim 3; Page 54; 275pp; English.
 XX
 XX BPI (bactericidal permeability-increasing) peptides (AAR80956-81081 and
 XX AAR2553-372) each have an amino acid sequence that is deriv. of a BPI
 XX functional domain (or a variant) having at least one of the biological
 XX activities of BPI, such as heparin binding or neutralisation;
 XX lipopolysaccharide (LPS) binding or neutralisation or bactericidal
 XX activity. The BPI peptides are based on the amino-terminal portion of
 XX BPI, esp. functional domains I, II, and III (BPI residues 17-45, 65-99
 XX and 142-169 resp.).
 XX
 XX Sequence 14 AA;
 XX
 XX Query Match 100.0%; Score 57; DB 16; Length 14;
 XX Best Local Similarity 100.0%; Pred. No. 0.0023;
 XX Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX
 XX QY 1 KWLQLFHKK 10
 XX | | | | | | | | | |
 XX Db 5 KWLQLFHKK 14
 XX
 XX RESULT 106
 XX AAR81083
 XX ID AAR81083 standard; peptide; 14 AA.
 XX AC AAR81083;
 XX DT 13-MAR-1996 (first entry)
 XX DE Anti-fungal BPI peptide fragment XMP.97.
 XX
 XX Bactericidal/permeability increasing protein; BPI; granule; mammalian;
 XX polymorphonuclear neutrophil; anti-bacterial; fungus; infection;
 XX antifungal; fluconazole; amphotericin B; Candida albicans; sterillise;
 XX lipopolysaccharide binding protein; sterillisation; medical instrument.
 XX Synthetic.
 XX OS WO9519179-AL.
 XX PN 20-JUL-1995.
 XX PD 13-JAN-1995; 95WO-US00498.
 XX PF 11-JUL-1994; 94US-0273540.
 XX PR 14-JAN-1994; 94US-0183222.
 XX 11-MAR-1994; 94US-0209762.
 XX 11-JUL-1994; 94US-0273540.
 XX (XOMA) XOMA CORP.
 XX PA Little RG, Lambert LH, Lim E, Scannon PJ;
 XX WPI: 1995-263713/34.
 XX
 XX Treating fungal infection with bactericidal permeability increasing
 XX protein or deriv. - esp. for control of systemic *Candida albicans*
 XX infection or for use in in vitro sterilisation
 XX Claim 15; Page 82; 153pp; English.
 XX
 XX The peptides AAR81083-4, AAR81088-R81244 and AAR81248-R81308 are examples
 XX of peptides derived from the sequence of a bactericidal/permeability

CC increasing (BPI) protein. BPI proteins are isolated from the granules
 CC of mammalian polymorphonuclear neutrophils (PMN). The peptides are
 CC derived from the sequence of an isolated BPI holoprotein (AAR81245).
 CC They are especially based on the 3 antibacterial functional domains: I
 CC (AAR81085), II (AAR81086) and III (AAR81087) present in N-terminal region
 CC of the BPI holoprotein. The peptides are used to treat fungal infections
 CC together with other antifungal cpds e.g. fluconazole or amphotericin B.
 CC The antifungal activity of the peptides may also be enhanced by addition
 CC of a lipopolysaccharide binding protein (LBP) e.g. AAR81245. The
 CC peptides can be used to treat fungal infection, esp. *Candida albicans*.
 CC They are also useful for killing or inhibiting fungi in vitro e.g. for
 CC sterilising medical instruments. This peptide corresponds to residues
 CC 148-161 of the holoprotein.

XX SQ Sequence 14 AA;
 Query Match 100.0%; Score 57; DB 16; Length 14;
 Best Local Similarity 100.0%; Pred. No. 0.0023;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0.

Oy 1 KWLIIQLFHKK 10
 DB 5 KWLIIQLFHKK 14

RESULT 107

AAR86546
 ID AAR86546 standard; peptide: 14 AA.

XX AC AAR86546;

DT 15-MAR-1996 (first entry)

DE BPI.97 for use in treating liver damage.

KW BPI: bactericidal; permeability increasing protein; RES;
 KW reticuloendothelial; Kupffer cells; liver insult; hepatotoxic;
 KW hepatectomy; trauma; viral hepatitis; chronic inflammatory.

XX OS Synthetic.

XX PN WO9510297-A1.

XX PD 20-APR-1995.

XX PF 05-OCT-1994; 94WO-US11404.

XX PR 15-OCT-1993; 93US-O132510.

XX PA (XOMA) XOMA CORP.

XX PI Boormester MA, Van Leeuwen PAM;

XX WPI: 1995-161572/21.

XX Use of bactericidal/permeability-increasing protein prods. - for
 PT treating adverse physiological effects of a depressed
 PT reticuloendothelial system function.

PS Claims 6,13; Page 71; 136pp; English.

XX The patent relates to the new use of a BPI protein product for treating
 CC adverse effects associated with depressed reticuloendothelial system
 CC function, especially diminished function of Kupffer cells of the liver
 CC resulting from physical, chemical or biological insult. Physical insult
 CC is exemplified by partial or total hepatectomy such as accompanies
 CC transplantation, and trauma. Chemical insult is exemplified by the
 CC results of exposure to hepatotoxic substances such as chloroform,
 CC glucosamine, carbon tetrachloride and ethanol. Biological insult is
 CC exemplified by (non-)infectious diseases such as viral hepatitis and
 CC chronic inflammatory hepatitis. The BPI protein product is preferably
 CC rBPI-23, rBPI-21, rBPI, rBPI-42 dimer or one of 222 specified BPI
 CC peptides. The present sequence is one of the specified peptides.

XX SQ Sequence 14 AA;

Query Match 100.0%; Score 57; DB 16; Length 14;
 Best Local Similarity 100.0%; Pred. No. 0.0023;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 KWLIIQLFHKK 10
 DB 5 KWLIIQLFHKK 14

RESULT 108

AAR76333
 ID AAR76333 standard; peptide: 14 AA.

XX AC AAR76333;

DT 25-JAN-1996 (first entry)

DE Bacterial permeability-increasing peptide BPI.97.

XX BPI peptide; bacterial permeability-increasing peptide; bactericidal;
 KW therapeutic effectiveness; antibiotic; concurrent administration;
 KW reverse resistance; gram-negative bacteria.

XX OS Homo sapiens.

XX PN WO9508344-A1.

XX PD 30-MAR-1995.

XX PF 22-SEP-1994; 94WO-US11225.

XX PR 22-SEP-1993; 93US-O125651.

XX PR 11-JUL-1994; 94US-0273401.

XX PA (XOMA) XOMA CORP.

XX PI Cohen J, Kung AHC, Lambert LA, Little RG;

XX WPI: 1995-161465/21.

XX BPI protein and an antibiotic in a medicament - for treatment of
 PT gram-negative bacterial infection

XX Example 24; Page 170; 259pp; English.

XX BPI (bacterial permeability-increasing) peptides (AAR76244-458) were
 CC screened for bactericidal effects on *E. coli* strains J5 and 0111:B4
 CC in a radial diffusion assay. BPI peptides which retain antibacterial
 CC activity are expected to improve the therapeutic effectiveness of
 CC antibiotics when concurrently administered. Concurrent administration
 CC of BPI protein products and antibiotics is shown to reverse resistance
 CC of a variety of gram-negative organisms to antibiotics.

XX SQ Sequence 14 AA;

Query Match 100.0%; Score 57; DB 16; Length 14;
 Best Local Similarity 100.0%; Pred. No. 0.0023;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 KWLIIQLFHKK 10
 DB 5 KWLIIQLFHKK 14

RESULT 109

AAW05943
 ID AAW05943 standard; peptide: 14 AA.

XX AC AAW05943;

XX

25-SEP-1997.
18-MAR-1997; 97WO-US05287.
22-MAR-1996; 96US-0621803.
(XOMA) XOMA CORP.
Better MD;
WPI; 1997-480215/44.
Recombinant production of bactericidal/permeability increasing protein - by expression as a fusion protein in microbial host cells, then cleaving the BPI peptide from the carrier
Claim 10; Page 85; 186pp; English.
A new recombinant DNA vector construct has been developed which encodes a fusion protein and is suitable for introduction into a bacterial host. The vector comprises: (a) DNA encoding at least one cationic bactericidal/permeability increasing peptide (BPI); (b) DNA encoding a carrier protein, and (c) DNA encoding an amino acid (aa) cleavage site located between (a) and (b). The present sequence represents a specifically claimed BPI peptide. The peptides have many uses including the treatment of bacterial and fungal infections. BPI peptides also bind to endotoxins and heparin, neutralising their effects. The peptides have further been shown to inhibit angiogenesis (partly due to heparin-binding activity). The fusion proteins have been found to be expressed in large amounts without significant proteolysis, and in some cases are actually secreted from the host cells. This allows the indirect production of anti-microbial BPI peptides in microbial hosts.

XX SQ Sequence 14 AA;
Query Match 100.0%; Score 57; DB 18; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.0023;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 KWLQLFHHK 10
DB 5 KWLQLFHHK 14
RESULT 112
AAW44430
ID AAW44430 standard; peptide; 14 AA.
AC AAW44430;
XX XX
XX 27-APR-1998 (first entry)
DE DE
DE Anti-fungal peptide #31 based on BPI protein (residues 142-169).
KW Anti-fungal peptide; bactericidal/permeability-increasing protein; BPI;
KW polymorphonuclear leukocyte; fungicide.
XX Synthetic.
OS Mammalia.
XX Key Location/Qualifiers
FH Modified-site 14
FT /note= "C-terminal amide"
FT
XX W09704008-A1.
PN
XX 06-FEB-1997.
PD
XX 21-MAR-1996; 96WO-US03845.
XX
XX 20-JUL-1995; 95US-0504941.
XX (XOMA) XOMA CORP.
PA

XX FI Padem MB, Lim E, Little RG;
XX WPI; 1997-132578/12.
XX
XX Anti-fungal peptide(s) derived from or based on domain III of
XX bactericidal-permeability-increasing protein - are used in vitro or
XX in vivo as a fungicides
XX
XX Claim 1; Page 136; 230pp; English.
XX This is a specifically claimed anti-fungal peptide which is based on
XX domain II (amino acids 142-160) of bactericidal-permeability-increasing
XX protein (BPI), isolated from the granules of mammalian polymorphonuclear
XX leukocytes. It is used in compositions with diluents, carriers or
XX adjuvants to treat fungal infections in patients. It may also be used in
XX vitro to kill or inhibit the replication of fungi, such as in
XX decontaminating fluids and sterilising medical and implant devices.
XX
XX Sequence 14 AA;
Query Match 100.0%; Score 57; DB 18; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.0023;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 KWLQLFHHK 10
DB 5 KWLQLFHHK 14
RESULT 113
AAW63394
ID AAW63394 standard; peptide; 14 AA.
XX
XX AAW63394;
XX
XX 16-SEP-1998 (first entry)
XX
XX Human BPI protein derived peptide XMP.97.
XX
XX Human; bactericidal/permeability increasing protein; BPI;
XX polymorphonuclear leukocyte; neutrophil; treatment;
XX gram-positive bacteria; antibiotic; Bacillus subtilis;
KW Staphylococcus aureus; S. epidermidis; S. hominis; S. sciuri;
KW S. saprophyticus; S. haemolyticus; S. hyicus; S. intermedius;
KW S. bovis; Streptococcus pneumoniae; S. pyogenes; S. agalactiae;
KW E. casseliflavus; E. durans; infection.
XX
XX Synthetic.
OS Homo sapiens.
XX
XX US5783561-A.
XX
XX 21-JUL-1998.
XX
XX 25-NOV-1996; 96US-0758116.
XX
XX 13-JAN-1995; 95US-0372783.
XX 14-JAN-1994; 94US-0183222.
XX 11-MAR-1994; 94US-0209762.
XX 11-JUL-1994; 94US-0274299.
XX (XOMA) XOMA CORP.
XX
XX Horwitz A, Lambert LH, Little RG;
XX
XX WPI; 1996-427075/36.
XX
XX Anti-gram-positive bacteria treatment - uses recombinant
XX bactericidal permeability increasing protein product
XX
XX Example 8; Columns 123-124; 148pp; English.
XX

XX Peptides AA663307-463 are derived from the human
CC bactericidal/permeability increasing (BPI) protein. The effects of these
CC peptides on *Staphylococcus aureus* was tested in an in vitro radiol
CC diffusion assay. BPI is a protein isolated from the granules of
CC polymorphonuclear leucocytes (neutrophils). It is thought that they bind
CC to lipopolysaccharide structures on bacterial cell walls and activate the
CC degradative enzymes of the bacteria. The specification describes a method
CC for treating a subject infected with a gram-positive bacterial species
CC with an antibiotic, where the bacterial species is one of *Bacillus*
CC *subtilis*, *Staphylococcus aureus*, *S. epidermidis*, *S. tomatis*, *S. sciuri*,
CC *S. saprophyticus*, *S. hyicus*, *S. haemolyticus*, *S. intermedius*, *S.*
CC *similans*, *Streptococcus pneumoniae*, *S. pyogenes*, *S. agalactiae*, *S. bovis*,
CC *Enterococcus faecalis*, *E. faecium*, *E. gallinarum*, *E. raffinosus*, *E.*
CC *casseliflavus* or *E. durans*, and BPI protein product to increase the
CC susceptibility of the bacterial species to the antibiotic. The methods
CC are useful for treating gram-positive bacterial infections with
CC antibiotics enhanced by recombinant BPI proteins.
XX
SQ Sequence 14 AA;

Query Match 100.0%; Score 57; DB 19; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.0023;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 KWLQLFHHK 10
Dy 5 KWLQLFHHK 14

RESULT 114
AA000407
ID AA000407 standard; Peptide: 14 AA.
XX
AC AA000407;
XX
DT 07-MAY-1999 (first entry)
XX
DE Antifungal peptide XMP.97.
XX
KW Antifungal; BPI; bactericidal/permeability increasing protein;
KW Candida infection.

XX Synthetic.
XX US5858974-A.
XX 12-JAN-1999.
XX 21-MAR-1996; 96US-0621259.
XX 21-MAR-1996; 96US-0621259.
XX 20-JUL-1995; 95US-0504841.
XX (XOMA) XOMA CORP.
XX
XX Padem MB, Lim E, Little RG;
XX WPI: 1999-119956/10.
XX
XX Antifungal peptides - comprising part of bactericidal or
XX permeability-increasing protein sequence or related sequence
XX
XX Disclosure; Columns 73-74; 132pp; English.

XX New peptides are provided which are based on Domain III (amino acids
CC 142-169) of human bactericidal/permeability-increasing protein (BPI).
CC The peptides all have a C-terminal amide. More particularly, the C-aims
CC relate to: (1) a peptide that has an amino acid sequence of human BPI
CC from position 148 to position 161 (KSKVGLQLFHHK) and variants of the
CC sequence having antifungal activity; and (2) an antifungal peptide
CC having 6-14 amino acids comprising (a) a core sequence selected from
CC LIQL, LQLF, WLQL, LIQLF and WLQLF and (b) one or more cationic amino

CC acids selected from K, R, H, Orr (ornithine) and Dab (diaminobutyric
CC acid) at the N and/or C terminus of the core sequence. The new peptides
CC are used for killing or inhibiting replication of fungi in vitro; and
CC for treating fungal infections in vivo, in particular infections of
CC *Candida*, *Aspergillus* or *Cryptococcus* spp., especially *C. albicans*, *C.*
CC *krusei*, *C. lusitanae*, *C. parapsilosis* or *C. tropicalis*. The peptide
CC can be administered topically, intravenously, orally or as an aerosol,
CC optionally together with a non-peptide antifungal agent.
XX
SQ Sequence 14 AA;

Query Match 100.0%; Score 57; DB 20; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.0023;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 KWLQLFHHK 10
Dy 5 KWLQLFHHK 14

RESULT 115
AA016132
ID AA016132 standard; Peptide: 14 AA.
XX
AC AA016132;
XX
DT 20-OCT-2000 (first entry)
XX
DE Bactericidal/permeability-increasing protein fragment SEQ ID #92.
XX
KW Gram positive bacterial infections; treat; antibiotic; bacteraemia;
KW bactericidal/permeability increasing protein; BPI; fever; hypotension;
KW shock; metabolic acidosis; disseminated intravascular coagulation;
KW clotting disorder; anaemia; thrombocytopaenia; leukopaenia;
KW adult respiratory distress syndrome; pulmonary disorders; renal failure;
KW hepatobiliary disease; central nervous system disorders.
XX
OS Homo sapiens.

XX US6054431-A.
XX 25-APR-2000.
XX 20-JUL-1998; 96US-0115263.
XX 13-JAN-1995; 95US-0372783.
XX 25-NOV-1995; 96US-0758116.
XX 14-JAN-1994; 94US-0183222.
XX 11-MAR-1994; 94US-0209762.
XX 11-JUL-1994; 94US-0274299.
XX (XOMA) XOMA CORP.
XX
XX Horwitz A, Lambert LH, Little RG;
XX WPI: 2000-338505/29.
XX
XX Treating gram positive bacterial infections such as bacteraemia, fever,
XX shock by administering antibiotics such as penicillin, cephalosporin
XX concurrently with a bactericidal/permeability increasing protein
XX product -
XX
XX Example 8; Column 123-124; 148pp; English.

XX This invention relates to a method for treating gram positive bacterial
CC infections. The method comprises administering antibiotics such as
CC penicillin, cephalosporin, imipenem, monobactam, aminoglycoside,
CC tetracycline, sulfonamide, trimethoprim/sulfonamide, fluoroquinolone,
CC macrolide, vancomycin, polymyxin, chloramphenicol or lincosamide
CC concurrently with a bactericidal/permeability increasing (BPI) protein
CC product. The method can be used for treating subjects suffering from
CC gram positive bacterial infections such as bacteraemia, fever,
CC hypotension, shock, metabolic acidosis, disseminated intravascular

CC coagulation and related clotting disorders, anaemia, thrombocytopaenia,
 CC leukopenia, adult respiratory distress syndrome and related pulmonary
 CC disorders, renal failure and related renal disorders, hepatobiliary
 CC disease and central nervous system disorders. The treatment method is
 CC effective even for gram positive organisms that are not susceptible to
 CC the direct bactericidal or growth inhibitory effects of BPI. The BPI
 CC protein products and antibiotics provide additive and synergistic
 CC bactericidal/growth inhibitory effects.
 CC Sequences AAB16041-B06108, AAB16110-B16136, AAB16138-B16183, and
 CC AAB16195-B16265 represent peptide fragments of human BPI, used in the
 CC method of the invention. The peptides are derived from the human BPI gene
 CC and protein sequences (see AAB62832, AAB16103 and AAB16184).
 CC Lipopolysaccharide binding protein fragments (see AAB16266-B16267) may be
 CC used in the invention as an alternative to BPI fragments, derived from
 CC the LBP gene and protein sequences (see AAB62831 and AAB16137). PCR
 CC primers represented by sequences AAB62843 to AAB6340, are used to
 CC generate the LBP and BPI DNA fragments used in the invention.

XX
 SQ Sequence 14 AA:
 Query Match 100.0% Score 57: DB 21: Length 14:
 Best Local Similarity 100.0% Pred. No. 0.0023:
 Matches 10: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

OY 1 KWLQLFHKK 10
 DB 5 KWLQLFHKK 14
 |||||

RESULT 116
 AAB65331
 ID AAB65331 standard: Peptide: 14 AA.

XX AAB65331:
 DT 27-MAR-2001 (first entry)
 XX Anti-fungal peptide XMP.97.
 DE Human BPI; antifungal; polymorphonuclear leukocyte; neutrophil;
 KW bactericidal/permeability-increasing protein; bactericidal;
 KW fungal infection.

XX Homo sapiens.
 OS
 XX US6156730-A.
 XX
 PD 05-DEC-2000.
 XX
 PF 08-JAN-1999; 99US-0227659.
 XX
 PR 21-MAR-1996; 95US-0621259.
 PR 12-MAR-1993; 93US-0030644.
 PR 15-JUL-1993; 93US-0093202.
 PR 14-JAN-1994; 94US-0183222.
 PR 11-MAR-1994; 94US-0209762.
 PR 11-JUL-1994; 94US-0273540.
 PR 15-SEP-1994; 94US-0306473.
 PR 13-JAN-1995; 95US-0372105.
 PR 20-JUL-1995; 95US-0504841.
 XX (XOMA) XOMA CORP.

XX Lim E, Fadom MB, Little KG;
 PI WPI; 2001-090160/10.

XX Novel anti-fungal peptides derived from domain III of
 PT bactericidal/permeability-increasing protein useful for killing or
 PT inhibiting replication of fungi and for treating fungal infections
 XX
 PS Example 2: Columns 73-74; 134pp: English.

CC The present invention relates to antifungal peptides (see
 CC AAB65301-B65550) derived from Domain III (amino acids 142-169) of
 CC bactericidal/permeability-increasing protein (BPI). The present sequence
 CC is one such antifungal peptide. BPI is a protein isolated from the
 CC granules of mammalian polymorphonuclear leukocytes (PMNs or
 CC neutrophils). BPI has potent bactericidal activity against a broad range
 CC of gram-negative bacteria. The peptides of the present invention are
 CC useful for killing or inhibiting replication of fungi, and treating
 CC infections caused by fungus belonging to Candida, Aspergillus,
 CC Cryptococcus species such as C.raibicans, C.glabrata, C.krusei,
 CC C.lusitanae, C.parapsilosis and C.tropicalis.

XX Sequence 14 AA:

Query Match 100.0% Score 57: DB 22: Length 14:
 Best Local Similarity 100.0% Pred. No. 0.0023:
 Matches 10: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

OY 1 KWLQLFHKK 10
 DB 5 KWLQLFHKK 14
 |||||

RESULT 117
 AAB52302
 ID AAB52302 standard: Peptide: 14 AA.

XX AAB52302:
 DT 22-FEB-2001 (first entry)
 XX Peptide BPI 97.
 DE Bactericidal/permeability increasing protein; BPI protein; antibiotic;
 KW antipyretic; antibacterial; immunosuppressive; vasotropic; antianaemic;
 KW immunostimulant; haemostatic; hypotensive; thrombolytic;
 KW protein synthesis inhibitor; gram-negative bacteria; sepsis; hypotension;
 KW shock; clotting disorder; anaemia; pulmonary disorder; renal disorder;
 KW hepatobiliary disease; central nervous system disorder.

XX Unidentified.
 OS
 XX US6140306-A.
 XX
 PD 31-OCT-2000.
 XX
 PF 03-JUN-1996; 96US-0657162.
 XX
 PR 22-SEP-1994; 94US-0311611.
 PR 22-SEP-1993; 93US-0125651.
 PR 11-JUL-1994; 94US-0273401.
 XX (XOMA) XOMA CORP.

XX Little RG, Lambert LH;
 PI WPI; 2001-014864/02.
 PT Enhancing the effect of antibiotic treatment for treating and
 PT preventing gram-negative bacterial infections, e.g. sepsis, by
 PT co-administering bactericidal/permeability increasing protein product
 PT with a tetracycline -

XX Example 24: Column 119-120; 133pp: English.

XX The present sequence is a bactericidal/permeability increasing (BPI)
 CC peptide with gram-negative bactericidal activity. BPI proteins may be
 CC used to enhance the effect of antibiotic treatment of a patient infected
 CC with gram-negative bacteria. The method is useful for the treatment and
 CC prophylaxis of patients at high risk of gram-negative bacterial
 CC infections, e.g. patients who will undergo abdominal or genitourinary
 CC surgery, or trauma victims. Gram-negative bacterial infections which may
 CC be treated with the BPI protein product and the antibiotic includes

CC sepsis, endotoxin-related hypotension and shock, and related conditions
CC including fever, metabolic acidosis, disseminated intravascular
CC coagulation and related clotting disorders, anaemia, thrombocytopenia,
CC leukopenia, adult respiratory distress syndrome and related pulmonary
CC disorders, renal failure/disorders, hepatobiliary disease, central
CC nervous system disorders, translocation of bacteria from the intestines
CC and concomitant release of endotoxin. Compositions comprising BPI
CC protein product and an antibiotic can be used as a bactericide to
CC decontaminate fluids and surfaces, and to sterilize surgical and other
CC medical equipment and implantable devices including prosthetic joints.
CC Concurrent administration of the BPI protein product and an
CC antibiotic is more effective even when the gram-negative bacteria
CC involved are considered to be resistant to the bactericidal effects of
CC the BPI protein product alone and/or the antibiotic alone.

XX
SQ Sequence 14 AA:

Query Match 100.0%; Score 57; DB 22; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.0023;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLPFHK 10
| | | | | | | |
Db 5 KWLQLPFHK 14

Search completed: October 1, 2003, 09:52:36
Job time : 72 secs

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OM protein - protein search, using sw model

Run on: October 1, 2003, 09:42:03 ; Search time 41 seconds

(without alignments)
10.320 Million c.e.1 updates/sec

Title: US-09-881-490-126

Perfect score: 57

Sequence: 1 KWLQLPHKK 10

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 96

Minimum DB seq length: 0

Maximum DB seq length: 20000000000

Post-processing: Minimum Match 100%

Maximum Match 100%

Listing first 1000 summaries

Database : Issued_Patents_AA.*

1: /cgn2_6/ptodata/1/iaa/5A.COMB.pep.*

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6: /cgn2_6/ptodata/1/iaa/backfiles.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	57	100.0	10	2	US-08-621-803-159
2	57	100.0	10	2	US-08-621-803-215
3	57	100.0	10	2	US-08-621-259A-126
4	57	100.0	10	2	US-08-621-259A-194
5	57	100.0	10	2	US-08-621-259A-195
6	57	100.0	10	2	US-08-621-259A-196
7	57	100.0	10	2	US-08-621-259A-197
8	57	100.0	10	2	US-08-621-259A-204
9	57	100.0	10	2	US-08-621-259A-244
10	57	100.0	10	2	US-08-621-259A-245
11	57	100.0	10	2	US-08-621-259A-246
12	57	100.0	10	2	US-08-621-259A-247
13	57	100.0	10	2	US-08-621-259A-250
14	57	100.0	10	3	US-09-217-352-153
15	57	100.0	10	3	US-09-217-352-215
16	57	100.0	10	4	US-09-344-541A-1
17	57	100.0	10	4	US-09-344-541A-2
18	57	100.0	10	4	US-09-344-541A-3
19	57	100.0	10	4	US-09-344-541A-11
20	57	100.0	10	4	US-09-344-541A-12
21	57	100.0	10	4	US-09-344-541A-13
22	57	100.0	10	4	US-09-344-541A-14
23	57	100.0	10	4	US-09-344-541A-15
24	57	100.0	10	4	US-09-344-541A-16
25	57	100.0	10	4	US-09-344-541A-17
26	57	100.0	10	4	US-09-344-541A-18
27	57	100.0	10	4	US-09-344-541A-19
28	57	100.0	10	4	US-09-344-541A-20
29	57	100.0	10	4	US-09-344-541A-21
30	57	100.0	10	4	US-09-344-541A-22
31	57	100.0	10	4	US-09-344-541A-23
32	57	100.0	10	4	US-09-344-541A-24
33	57	100.0	10	4	US-09-344-541A-25
34	57	100.0	10	4	US-09-344-541A-26
35	57	100.0	10	4	US-09-344-541A-27
36	57	100.0	10	4	US-09-344-541A-28
37	57	100.0	10	4	US-09-344-541A-29
38	57	100.0	10	4	US-09-344-541A-30
39	57	100.0	10	4	US-09-344-541A-31
40	57	100.0	10	4	US-09-344-541A-32
41	57	100.0	10	4	US-09-344-541A-33
42	57	100.0	10	4	US-09-344-541A-35
43	57	100.0	10	4	US-09-344-541A-36
44	57	100.0	10	4	US-09-344-541A-37
45	57	100.0	10	4	US-09-344-541A-38
46	57	100.0	10	4	US-09-344-541A-39
47	57	100.0	10	4	US-09-344-541A-40
48	57	100.0	10	4	US-09-344-541A-41
49	57	100.0	10	4	US-09-344-541A-43
50	57	100.0	10	4	US-09-344-541A-48
51	57	100.0	10	4	US-09-344-541A-49
52	57	100.0	10	4	US-09-545-112-3
53	57	100.0	10	4	US-09-545-112-5
54	57	100.0	10	4	US-09-543-955-3
55	57	100.0	10	4	US-09-543-955-5
56	57	100.0	10	5	PCT-US95-09262-126
57	57	100.0	10	5	PCT-US95-09262-194
58	57	100.0	10	5	PCT-US95-09262-195
59	57	100.0	10	5	PCT-US95-09262-196
60	57	100.0	10	5	PCT-US95-09262-197
61	57	100.0	10	5	PCT-US95-09262-204
62	57	100.0	11	2	US-08-621-803-155
63	57	100.0	11	2	US-08-621-803-208
64	57	100.0	11	2	US-08-621-259A-122
65	57	100.0	11	2	US-08-621-259A-183
66	57	100.0	11	3	US-09-217-352-155
67	57	100.0	11	3	US-09-217-352-208
68	57	100.0	11	5	PCT-US95-09262-122
69	57	100.0	11	5	PCT-US95-09262-183
70	57	100.0	12	2	US-08-621-803-152
71	57	100.0	12	2	US-08-621-259A-119
72	57	100.0	12	3	US-09-217-352-152
73	57	100.0	12	5	PCT-US95-09262-119
74	57	100.0	13	2	US-08-621-803-159
75	57	100.0	13	2	US-08-621-259A-117
76	57	100.0	13	3	US-09-217-352-150
77	57	100.0	13	5	PCT-US95-09262-117
78	57	100.0	14	1	US-08-311-611A-92
79	57	100.0	14	1	US-08-372-783-92
80	57	100.0	14	1	US-08-372-105-92
81	57	100.0	14	1	US-08-306-473A-92
82	57	100.0	14	1	US-08-209-762-92
83	57	100.0	14	1	US-08-473-344-92
84	57	100.0	14	2	US-08-621-803-96
85	57	100.0	14	2	US-08-485-445A-92
86	57	100.0	14	2	US-08-621-259A-31
87	57	100.0	14	3	US-09-119-263-92
88	57	100.0	14	3	US-08-657-162-92
89	57	100.0	14	3	US-09-224-480-92
90	57	100.0	14	3	US-09-093-539-92
91	57	100.0	14	3	US-09-217-352-86
92	57	100.0	14	4	US-09-790-230-92
93	57	100.0	14	5	PCT-US94-02465-92
94	57	100.0	14	5	PCT-US95-00498-92
95	57	100.0	14	5	PCT-US95-00656-92
96	57	100.0	14	5	PCT-US95-09262-31

ALIGNMENTS

```
RESULT 1
US-08-621-803-159
; Sequence 159, Application US/08621803
; Patent No. 5851802
; GENERAL INFORMATION:
; APPLICANT: Better, Marc D.
; TITLE OF INVENTION: Methods for Recombinant Microbial Production of
; FUSION PROTEINS AND BPI-DERIVED PEPTIDES
; NUMBER OF SEQUENCES: 265
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/621,803
; FILING DATE: 22-MAR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Borun, Michael F.
; REGISTRATION NUMBER: 25,447
; REFERENCE/DOCKET NUMBER: 27129/33199
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 159:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: *XMP.293*
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: C-Terminus
; OTHER INFORMATION: /label= Amidation
; OTHER INFORMATION: /note= "The C-terminus is Amidated."
US-08-621-803-159

Query Match 100.0%; Score 57; DB 2: Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
DB 1 KWLQLFHKK 10

RESULT 2
US-08-621-803-215
; Sequence 215, Application US/08621803
; Patent No. 5851802
; GENERAL INFORMATION:
; APPLICANT: Better, Marc D.
; TITLE OF INVENTION: Methods for Recombinant Microbial Production of
; FUSION PROTEINS AND BPI-DERIVED PEPTIDES
; NUMBER OF SEQUENCES: 265
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/621,259A
; FILING DATE: 21-MAR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Borun, Michael F.
; REGISTRATION NUMBER: 25,447
; REFERENCE/DOCKET NUMBER: 27129/33199
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 215:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: *XMP.373"
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: C-Terminus
; OTHER INFORMATION: /label= Acetylated
; OTHER INFORMATION: /note= "Position 1 is acetylated."
US-08-621-803-215

Query Match 100.0%; Score 57; DB 2: Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
DB 1 KWLQLFHKK 10

RESULT 3
US-08-621-259A-126
; Sequence 126, Application US/08621259A
; Patent No. 5858974
; GENERAL INFORMATION:
; APPLICANT: Little IL, Roger G
; APPLICANT: Lim, Edward
; APPLICANT: Fadem, Mitchell B.
; TITLE OF INVENTION: Anti-Fungal Peptides
; NUMBER OF SEQUENCES: 252
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McAndrews, Held & Malloy, Ltd.
; STREET: 500 West Madison Street
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60661
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/621,259A
; FILING DATE: 21-MAR-1996
; PRIOR APPLICATION DATA:
```

bad date

APPLICATION NUMBER: 08/504,841
FILING DATE: 20-JUL-1995
ATTORNEY/AGENT INFORMATION:
NAME: McNicholas, Janet M.
REGISTRATION NUMBER: 32,918
REFERENCE/DOCKET NUMBER: 11021US02
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312/707-8889
TELEFAX: 312/707-9155
TELEX:

INFORMATION FOR SEQ ID NO: 126:

SEQUENCE CHARACTERISTICS:

LENGTH: 10 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: peptide

FEATURE:

NAME/KEY: misc.feature

OTHER INFORMATION: "XMP.293"

FEATURE:

NAME/KEY: Modified-site

LOCATION: C-Terminus

OTHER INFORMATION: /label= Amidation

OTHER INFORMATION: /note= "The C-Terminus is Amidated."

US-08-621-259A-126

Query Match 100.0%; Score 57; DB 2: Length 10;

Best Local Similarity 100.0%; Pred. No. 0.0015;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10

DB 1 KWLQLFHKK 10

RESULT 4

US-08-621-259A-194

Sequence 194, Application: US/08621259A

Patent No. 5858974

GENERAL INFORMATION:

APPLICANT: Little II, Roger G

APPLICANT: Lim, Edward

APPLICANT: Fadem, Mitchell B.

TITLE OF INVENTION: Anti-Fungal Peptides

NUMBER OF SEQUENCES: 252

CORRESPONDENCE ADDRESS:

ADDRESSEE: McAndrews, Held & Malloy, Ltd.

STREET: 500 West Madison Street

CITY: Chicago

STATE: Illinois

COUNTRY: United States of America

ZIP: 60661

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/621,259A

FILING DATE: 21-MAR-1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/504,841

FILING DATE: 20-JUL-1995

ATTORNEY/AGENT INFORMATION:

NAME: McNicholas, Janet M.

REGISTRATION NUMBER: 32,918

REFERENCE/DOCKET NUMBER: 11021US02

TELECOMMUNICATION INFORMATION:

TELEPHONE: 312/707-8889

TELEFAX: 312/707-9155

TELEX:

INFORMATION FOR SEQ ID NO: 194:

SEQUENCE CHARACTERISTICS:

LENGTH: 10 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: misc.feature
OTHER INFORMATION: "XMP.363"

FEATURE:

NAME/KEY: Modified-site

LOCATION: 1, 9 & 10

OTHER INFORMATION: /label= D-Lys

OTHER INFORMATION: /note= "Positions 1, 9 & 10 are D-lysine."

FEATURE:

NAME/KEY: Modified-site

LOCATION: 2

OTHER INFORMATION: /label= D-Tip

OTHER INFORMATION: /note= "Position 2 is D-tryptophan."

FEATURE:

NAME/KEY: Modified-site

LOCATION: C-Terminus

OTHER INFORMATION: /label= Amidation

OTHER INFORMATION: /note= "The C-Terminus is Amidated."

US-08-621-259A-194

Query Match 100.0%; Score 57; DB 2: Length 10;

Best Local Similarity 100.0%; Pred. No. 0.0015;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10

DB 1 KWLQLFHKK 10

RESULT 5

US-08-621-259A-195

Sequence 195, Application: US/08621259A

Patent No. 5858974

GENERAL INFORMATION:

APPLICANT: Little II, Roger G

APPLICANT: Lim, Edward

APPLICANT: Fadem, Mitchell B.

TITLE OF INVENTION: Anti-Fungal Peptides

NUMBER OF SEQUENCES: 252

CORRESPONDENCE ADDRESS:

ADDRESSEE: McAndrews, Held & Malloy, Ltd.

STREET: 500 West Madison Street

CITY: Chicago

STATE: Illinois

COUNTRY: United States of America

ZIP: 60661

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/621,259A

FILING DATE: 21-MAR-1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/504,841

FILING DATE: 20-JUL-1995

ATTORNEY/AGENT INFORMATION:

NAME: McNicholas, Janet M.

REGISTRATION NUMBER: 32,918

REFERENCE/DOCKET NUMBER: 11021US02

TELECOMMUNICATION INFORMATION:

TELEPHONE: 312/707-8889

TELEFAX: 312/707-9155

TELEX:

INFORMATION FOR SEQ ID NO: 195:

SEQUENCE CHARACTERISTICS:

LENGTH: 10 amino acids

TYPE: amino acid

Appd.

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;
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: "XMP.364"
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: 1
; OTHER INFORMATION: /label= Acetylated
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: 1, 9 & 10
; OTHER INFORMATION: /label= D-Lys
; OTHER INFORMATION: /note= "Positions 1, 9 & 10 are D-lysine."
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: 2
; OTHER INFORMATION: /label= D-Trp
; OTHER INFORMATION: /note= "Position 2 is D-tryptophan."
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: C-Terminus
; OTHER INFORMATION: /label= Amidation
; OTHER INFORMATION: /note= "The C-Terminus is Amidated."
;
; US-08-621-259A-195
;
; Query Match 100.0%; Score 57; DB 2; Length 10;
; Best Local Similarity 100.0%; Pred. No. 0.0015;
; Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
Qy 1 KWLQLFHHK 10
Db 1 KWLQLFHHK 10
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RESULT 6

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US-08-621-259A-196
; Sequence 196, Application US/08621259A
; Patent No. 5858974
; GENERAL INFORMATION:
; APPLICANT: Little II, Roger G
; APPLICANT: Lim, Edward
; APPLICANT: Fadem, Mitchell B.
; TITLE OF INVENTION: Anti-Fungal Peptides
; NUMBER OF SEQUENCES: 252
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McAndrews, Held & Malloy, Ltd.
; STREET: 500 West Madison Street
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60661
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/621,259A
; FILING DATE: 21-MAR-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/504,841
; FILING DATE: 20-JUL-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: McNicholas, Janet M.
; REGISTRATION NUMBER: 32,918
; REFERENCE/DOCKET NUMBER: 11021US02
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/707-8889
; TELEFAX: 312/707-9155
; TELEX:
; INFORMATION FOR SEQ ID NO: 196:
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```
;
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: "XMP.365"
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: 1-10
; OTHER INFORMATION: /label= D-Amino Acids
; OTHER INFORMATION: /note= "Positions 1-10 are D-amino acids"
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: C-Terminus
; OTHER INFORMATION: /label= Amidation
; OTHER INFORMATION: /note= "The C-Terminus is Amidated."
;
; US-08-621-259A-196
;
; Query Match 100.0%; Score 57; DB 2; Length 10;
; Best Local Similarity 100.0%; Pred. No. 0.0015;
; Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
Qy 1 KWLQLFHHK 10
Db 1 KWLQLFHHK 10
```

RESULT 7

```
US-08-621-259A-197
; Sequence 197, Application US/08621259A
; Patent No. 5858974
; GENERAL INFORMATION:
; APPLICANT: Little II, Roger G
; APPLICANT: Lim, Edward
; APPLICANT: Fadem, Mitchell B.
; TITLE OF INVENTION: Anti-Fungal Peptides
; NUMBER OF SEQUENCES: 252
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McAndrews, Held & Malloy, Ltd.
; STREET: 500 West Madison Street
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60661
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/621,259A
; FILING DATE: 21-MAR-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/504,841
; FILING DATE: 20-JUL-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: McNicholas, Janet M.
; REGISTRATION NUMBER: 32,918
; REFERENCE/DOCKET NUMBER: 11021US02
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/707-8889
; TELEFAX: 312/707-9155
; TELEX:
; INFORMATION FOR SEQ ID NO: 197:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: misc_feature
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; OTHER INFORMATION: "XMP.366"
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: 1
; OTHER INFORMATION: /label= Acetylated
; OTHER INFORMATION: /note= "Position 1 is acetylated."
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: 1-10
; OTHER INFORMATION: /label= D-Amino Acids
; OTHER INFORMATION: /note= "Positions 1-10 are D-amino acids"
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: C-Terminus
; OTHER INFORMATION: /label= Amidation
; OTHER INFORMATION: /note= "The C-Terminus is Amidated."
US-08-621-259A-197
Query Match: 100.0%; Score 57; DB 2; Length 10;
Best Local Similarity: 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KWLQLFHHK 10
Db 1 KWLQLFHHK 10

RESULT 8
US-08-621-259A-204
; Sequence 204, Application US/08621259A
; Patent No. 5858974
; GENERAL INFORMATION:
; APPLICANT: Little II, Roger G
; APPLICANT: Lim, Edward
; APPLICANT: Fadem, Mitchell B.
; TITLE OF INVENTION: Anti-Fungal Peptides
; NUMBER OF SEQUENCES: 252
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McAndrews, Held & Malloy, Ltd.
; STREET: 500 West Madison Street
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60661
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: 21-MAR-1995
; APPLICATION NUMBER: US/08/621,259A
; PRIOR APPLICATION DATA:
; FILING DATE: 20-JUL-1995
; APPLICATION NUMBER: 08/504,841
; ATTORNEY/AGENT INFORMATION:
; NAME: McNicholas, Janet M.
; REGISTRATION NUMBER: 32,918
; REFERENCE/DOCKET NUMBER: 11021US02
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/707-8889
; TELEFAX: 312/707-9155
; TELEX:
; INFORMATION FOR SEQ ID NO: 204:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; NAME/KEY: misc_feature
; OTHER INFORMATION: "XMP.373"
; FEATURE:

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```

; NAME/KEY: Modified-site
; LOCATION: 1
; OTHER INFORMATION: /label= Acetylated
; OTHER INFORMATION: /note= "Position 1 is acetylated."
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: C-Terminus
; OTHER INFORMATION: /label= Amidation
; OTHER INFORMATION: /note= "The C-Terminus is Amidated."
US-08-621-259A-204
Query Match: 100.0%; Score 57; DB 2; Length 10;
Best Local Similarity: 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KWLQLFHHK 10
Db 1 KWLQLFHHK 10

RESULT 9
US-08-621-259A-244
; Sequence 244, Application US/08621259A
; Patent No. 5838974
; GENERAL INFORMATION:
; APPLICANT: Little II, Roger G
; APPLICANT: Lim, Edward
; APPLICANT: Fadem, Mitchell B.
; TITLE OF INVENTION: Anti-Fungal Peptides
; NUMBER OF SEQUENCES: 252
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McAndrews, Held & Malloy, Ltd.
; STREET: 500 West Madison Street
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60661
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: 21-MAR-1996
; APPLICATION NUMBER: US/08/621,259A
; PRIOR APPLICATION DATA:
; FILING DATE: 20-JUL-1995
; APPLICATION NUMBER: 08/504,841
; ATTORNEY/AGENT INFORMATION:
; NAME: McNicholas, Janet M.
; REGISTRATION NUMBER: 32,918
; REFERENCE/DOCKET NUMBER: 11021US02
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/707-8889
; TELEFAX: 312/707-9155
; TELEX:
; INFORMATION FOR SEQ ID NO: 244:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; NAME/KEY: misc_feature
; OTHER INFORMATION: "XMP.414"
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: 1-10
; OTHER INFORMATION: /label= D-Amino Acids
; OTHER INFORMATION: /note= "Positions 1-10 are D-amino acids"
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: C-Terminus

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/ OTHER INFORMATION: /label= Amidation."
/ OTHER INFORMATION: /note= "The C-Terminus is Amidated."
FEATURE:
/ NAME/KEY: Modified-site
/ LOCATION: N-Terminus
/ OTHER INFORMATION: /label= caprylyl group
/ OTHER INFORMATION: /note= "CH3-(CH2)6-CO at N-Terminus."
US-08-621-259A-244
Query Match 100.0%; Score 57; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 KWLQLFHKK 10
Db 1 KWLQLFHKK 10
|||||
RESULT 10
US-08-621-259A-245
: Sequence 245, Application US/08621259A
: Patent No. 5858974
: GENERAL INFORMATION:
: APPLICANT: Little II, Roger G
: APPLICANT: Lim, Edward
: APPLICANT: Fadem, Mitchell B.
: TITLE OF INVENTION: Anti-Fungal Peptides
: NUMBER OF SEQUENCES: 252
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: McAndrews, Held & Malloy, Ltd.
: STREET: 500 West Madison Street
: CITY: Chicago
: STATE: Illinois
: COUNTRY: United States of America
: ZIP: 60661
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent In Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/621.259A
: FILING DATE: 21-MAR-1996
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/504,841
: FILING DATE: 20-JUL-1995
: ATTORNEY/AGENT INFORMATION:
: NAME: McNicholas, Janet M.
: REGISTRATION NUMBER: 32,918
: REFERENCE/DOCKET NUMBER: 11021US02
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 312/707-8889
: TELEFAX: 312/707-9155
: TELEX:
: INFORMATION FOR SEQ ID NO: 245:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 10 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: peptide
: FEATURE:
: NAME/KEY: misc_feature
: OTHER INFORMATION: "XMP.415"
FEATURE:
/ NAME/KEY: Modified-site
/ LOCATION: 1-10
/ OTHER INFORMATION: /label= D-Amino Acids
/ OTHER INFORMATION: /note= "Positions 1-10 are D-amino acids"
FEATURE:
/ NAME/KEY: Modified-site
/ LOCATION: C-Terminus
/ OTHER INFORMATION: /label= Amidation
/ OTHER INFORMATION: /note= "The C-Terminus is Amidated."
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/ FEATURE:
/ NAME/KEY: Modified-site
/ LOCATION: N-Terminus
/ OTHER INFORMATION: /label= lauryl group
/ OTHER INFORMATION: /note= "CH3-(CH2)10-CO at N-Terminus."
US-08-621-259A-245
Query Match 100.0%; Score 57; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 KWLQLFHKK 10
Db 1 KWLQLFHKK 10
|||||
RESULT 11
US-08-621-259A-246
: Sequence 246, Application US/08621259A
: Patent No. 5858974
: GENERAL INFORMATION:
: APPLICANT: Little II, Roger G
: APPLICANT: Lim, Edward
: APPLICANT: Fadem, Mitchell B.
: TITLE OF INVENTION: Anti-Fungal Peptides
: NUMBER OF SEQUENCES: 252
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: McAndrews, Held & Malloy, Ltd.
: STREET: 500 West Madison Street
: CITY: Chicago
: STATE: Illinois
: COUNTRY: United States of America
: ZIP: 60661
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent In Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/621.259A
: FILING DATE: 21-MAR-1996
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/504,841
: FILING DATE: 20-JUL-1995
: ATTORNEY/AGENT INFORMATION:
: NAME: McNicholas, Janet M.
: REGISTRATION NUMBER: 32,918
: REFERENCE/DOCKET NUMBER: 11021US02
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 312/707-8889
: TELEFAX: 312/707-9155
: TELEX:
: INFORMATION FOR SEQ ID NO: 246:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 10 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: peptide
: FEATURE:
: NAME/KEY: misc_feature
: OTHER INFORMATION: "XMP.416"
FEATURE:
/ NAME/KEY: Modified-site
/ LOCATION: 1-10
/ OTHER INFORMATION: /label= D-Amino Acids
/ OTHER INFORMATION: /note= "Positions 1-10 are D-amino acids"
FEATURE:
/ NAME/KEY: Modified-site
/ LOCATION: C-Terminus
/ OTHER INFORMATION: /label= Amidation
/ OTHER INFORMATION: /note= "The C-Terminus is Amidated."
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```
; LOCATION: N-Terminus
; OTHER INFORMATION: /label= 8-amino-octanoyl group
; OTHER INFORMATION: /note= "NH2-(CH2)7-CO at N-Terminus."
US-08-621-259A-246
Query Match 100.0%; Score 57; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.9015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
DB 1 KWLQLFHKK 10

RESULT 12
US-08-621-259A-247
; Sequence 247, Application US/08621259A
; Patent No. 5858974
; GENERAL INFORMATION:
; APPLICANT: Little II, Roger G
; APPLICANT: Lim, Edward
; APPLICANT: Fadem, Mitchell B.
; TITLE OF INVENTION: Anti-Fungal Peptides
; NUMBER OF SEQUENCES: 252
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McAndrews, Held & Malloy, Ltd.
; STREET: 500 West Madison Street
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60661
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/621.259A
; FILING DATE: 21-MAR-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/504,841
; FILING DATE: 20-JUL-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: McNicholas, Janet M.
; REGISTRATION NUMBER: 32,918
; REFERENCE/DOCKET NUMBER: 11021US02
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/707-8889
; TELEFAX: 312/707-9155
; TELEX:
; INFORMATION FOR SEQ ID NO: 247:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: "XMP.417"
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: 1-10
; OTHER INFORMATION: /label= D-Amino Acids
; OTHER INFORMATION: /note= "Positions 1-10 are D-amino acids"
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: C-Terminus
; OTHER INFORMATION: /label= Amidation
; OTHER INFORMATION: /note= "The C-Terminus is Amidated."
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: N-Terminus
; OTHER INFORMATION: /label= 12-amino-dodecanoyl group
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; OTHER INFORMATION: /note= "NH2-(CH2)11-CO at N-Terminus."
US-08-621-259A-247
Query Match 100.0%; Score 57; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
DB 1 KWLQLFHKK 10

RESULT 13
US-08-621-259A-250
; Sequence 250, Application US/08621259A
; Patent No. 5858974
; GENERAL INFORMATION:
; APPLICANT: Little II, Roger G
; APPLICANT: Lim, Edward
; APPLICANT: Fadem, Mitchell B.
; TITLE OF INVENTION: Anti-Fungal Peptides
; NUMBER OF SEQUENCES: 252
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McAndrews, Held & Malloy, Ltd.
; STREET: 500 West Madison Street
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60661
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/621.259A
; FILING DATE: 21-MAR-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/504,841
; FILING DATE: 20-JUL-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: McNicholas, Janet M.
; REGISTRATION NUMBER: 32,918
; REFERENCE/DOCKET NUMBER: 11021US02
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/707-8889
; TELEFAX: 312/707-9155
; TELEX:
; INFORMATION FOR SEQ ID NO: 250:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: "XMP.420"
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: C-Terminus
; OTHER INFORMATION: /label= Amidation
; OTHER INFORMATION: /note= "The C-Terminus is Amidated."
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: N-Terminus
; OTHER INFORMATION: /label=
; OTHER INFORMATION: /note= "The N-Terminus is protected by
; OTHER INFORMATION: 1-Fluorenylmethyl-
; OTHER INFORMATION: oxycarbonyl (Fmoc)"
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: "XMP.365"
; FEATURE:
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NAME/KEY: Modified-site
LOCATION: 1-10
OTHER INFORMATION: /label- D-Amino Acids
OTHER INFORMATION: /note- "Positions 1-10 are D-amino acids"

US-08-621-259A-250
Query Match 100.0%; Score 57; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KWLQLFHHK 10
Db 1 KWLQLFHHK 10

RESULT 14
US-09-217-352-159
Sequence 159, Application US/09217352
Patent No. 6274344
GENERAL INFORMATION:
APPLICANT: Better, Marc D.
TITLE OF INVENTION: Methods for Recombinant Microbial Production of
TITLE OF INVENTION: Fusion Proteins and BPI-Derived Peptides
NUMBER OF SEQUENCES: 265
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/217,352
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/621,503
FILING DATE: 22-MAR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Borun, Michael F.
REGISTRATION NUMBER: 25,447
REFERENCE/DOCKET NUMBER: 27129/33199
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312/474-6300
TELEFAX: 312/474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 159:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: misc_feature
OTHER INFORMATION: "XMP.233"

NAME/KEY: Modified-site
LOCATION: C-Terminus
OTHER INFORMATION: /label- Amidation
OTHER INFORMATION: /note- "The C-Terminus is Amidated."

US-09-217-352-159
Query Match 100.0%; Score 57; DB 3; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KWLQLFHHK 10
Db 1 KWLQLFHHK 10

RESULT 15
US-09-217-352-215
Sequence 215, Application US/09217352
Patent No. 6274344
GENERAL INFORMATION:
APPLICANT: Better, Marc D.
TITLE OF INVENTION: Methods for Recombinant Microbial Production of
TITLE OF INVENTION: Fusion Proteins and BPI-Derived Peptides
NUMBER OF SEQUENCES: 265
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/217,352
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/621,803
FILING DATE: 22-MAR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Borun, Michael F.
REGISTRATION NUMBER: 25,447
REFERENCE/DOCKET NUMBER: 27129/33199
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312/474-6300
TELEFAX: 312/474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 215:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: misc_feature
OTHER INFORMATION: "XMP.373"
FEATURE:
NAME/KEY: Modified-site
LOCATION: 1
OTHER INFORMATION: /label- Acetylated
OTHER INFORMATION: /note- "Position 1 is acetylated."
FEATURE:
NAME/KEY: Modified-site
LOCATION: C-Terminus
OTHER INFORMATION: /label- Amidation
OTHER INFORMATION: /note- "The C-Terminus is Amidated."

US-09-217-352-215
Query Match 100.0%; Score 57; DB 3; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KWLQLFHHK 10
Db 1 KWLQLFHHK 10

RESULT 16
US-09-341-541A-1
Sequence 1, Application US/09344541A
Patent No. 6355616
GENERAL INFORMATION:
APPLICANT: Little, II, Roger G.

1 APPLICANT: Lin, Jong J.
2 APPLICANT: Gikonyo, J. G. Kinyua
3 TITLE OF INVENTION: Derivative Compounds
4 FILE REFERENCE: 11045US01
5 CURRENT APPLICATION NUMBER: US/09/344,541A
6 CURRENT FILING DATE: 1999-06-25
7 NUMBER OF SEQ ID NOS: 51
8 SOFTWARE: PatentIn Ver. 2.1
9 SEQ ID NO 1
10 LENGTH: 10
11 TYPE: PRT
12 ORGANISM: derived from human
13 FEATURE:
14 NAME/KEY: SITE
15 LOCATION: (1)..(10)
16 OTHER INFORMATION: Positions 1-10 are D-Amino Acids
17 NAME/KEY: SITE
18 LOCATION: (10)
19 OTHER INFORMATION: AMIDATION-The C-terminus is Amidated
20 US-09-344-541A-1

Query Match 100.0%; Score 57; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLICLFHKK 10
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Best Local Similarity 100.0%, Pred. No. C.0015,
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
Db 1 KWLQLFHKK 10

RESULT 20
US-09-344-541A-12
; Sequence 12, Application US/09344541A
; Patent No. 6355616
; GENERAL INFORMATION:
; APPLICANT: Little, II, Roger G.
; APPLICANT: Lin, Jong J.
; APPLICANT: Gikonyo, J. G. Kinuya
; TITLE OF INVENTION: Derivative Compounds
; FILE REFERENCE: 11045US01
; CURRENT APPLICATION NUMBER: US/09/344,541A
; CURRENT FILING DATE: 1999-06-25
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 10
; TYPE: PRT
; ORGANISM: derived from human
; FEATURE:
; OTHER INFORMATION: XMP.489
; NAME/KEY: SITE
; LOCATION: (1)
; OTHER INFORMATION: Position 1 is derivatized at the alpha-amino with:
; OTHER INFORMATION: acetyl
; NAME/KEY: SITE
; LOCATION: (10)
; OTHER INFORMATION: Position 10 is derivatized at the carboxy terminus
; OTHER INFORMATION: with: 2-(N-fluoroscein)diaminopropylamide
; NAME/KEY: SITE
; LOCATION: (1)...(10)
; OTHER INFORMATION: Positions 1-10 are D-Amino Acids
US-09-344-541A-12

Query Match 100.0%; Score 57; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. C.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
Db 1 KWLQLFHKK 10

RESULT 21
US-09-344-541A-13
; Sequence 13, Application US/09344541A
; Patent No. 6355616
; GENERAL INFORMATION:
; APPLICANT: Little, II, Roger G.
; APPLICANT: Lin, Jong J.
; APPLICANT: Gikonyo, J. G. Kinuya
; TITLE OF INVENTION: Derivative Compounds
; FILE REFERENCE: 11045US01
; CURRENT APPLICATION NUMBER: US/09/344,541A
; CURRENT FILING DATE: 1999-06-25
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 10
; TYPE: PRT
; ORGANISM: derived from human
; FEATURE:
; OTHER INFORMATION: XMP.492
; NAME/KEY: SITE
; LOCATION: (1)...(10)
; OTHER INFORMATION: Positions 1-10 are D-amino acids
US-09-344-541A-13

Best Local Similarity 100.0%, Pred. No. C.0015,
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

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; NAME/KEY: SITE
; LOCATION: (1)
; OTHER INFORMATION: Position 1 is derivatized with: 2-aminoethyl
; NAME/KEY: SITE
; LOCATION: (10)
; OTHER INFORMATION: AMIDATION-The C-terminus is Amidated
US-09-344-541A-13

Query Match 100.0%; Score 57; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. C.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
Db 1 KWLQLFHKK 10

RESULT 22
US-09-344-541A-14
; Sequence 14, Application US/09344541A
; Patent No. 6355616
; GENERAL INFORMATION:
; APPLICANT: Little, II, Roger G.
; APPLICANT: Lin, Jong J.
; APPLICANT: Gikonyo, J. G. Kinuya
; TITLE OF INVENTION: Derivative Compounds
; FILE REFERENCE: 11045US01
; CURRENT APPLICATION NUMBER: US/09/344,541A
; CURRENT FILING DATE: 1999-06-25
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 10
; TYPE: PRT
; ORGANISM: derived from human
; FEATURE:
; OTHER INFORMATION: XMP.493
; NAME/KEY: SITE
; LOCATION: (1)...(10)
; OTHER INFORMATION: Positions 1-10 are D-amino acids
US-09-344-541A-14

Query Match 100.0%; Score 57; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. C.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
Db 1 KWLQLFHKK 10

RESULT 23
US-09-344-541A-15
; Sequence 15, Application US/09344541A
; Patent No. 6355616
; GENERAL INFORMATION:
; APPLICANT: Little, II, Roger G.
; APPLICANT: Lin, Jong J.
; APPLICANT: Gikonyo, J. G. Kinuya
; TITLE OF INVENTION: Derivative Compounds
; FILE REFERENCE: 11045US01
; CURRENT APPLICATION NUMBER: US/09/344,541A
; CURRENT FILING DATE: 1999-06-25
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 15
; LENGTH: 10
; TYPE: PRT
; ORGANISM: derived from human
; FEATURE:
; OTHER INFORMATION: XMP.494
; NAME/KEY: SITE
; LOCATION: (1)...(10)
; OTHER INFORMATION: Positions 1-10 are D-amino acids
US-09-344-541A-15

Query Match 100.0%; Score 57; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. C.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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; SEQ ID NO 15
; LENGTH: 10
; TYPE: PRT
; ORGANISM: derived from human
; FEATURE:
; OTHER INFORMATION: XMP.496
; NAME/KEY: SITE
; LOCATION: (1)
; OTHER INFORMATION: Position 1 is derivatized at the alpha-amino with:
; OTHER INFORMATION: 10- amino-decylcarbonyl
; NAME/KEY: SITE
; LOCATION: (1)..(10)
; OTHER INFORMATION: Positions 1-10 are D-Amino Acids
; NAME/KEY: SITE
; LOCATION: (10)
; OTHER INFORMATION: AMIDATION-The C-terminus is Amidated
US-09-344-541A-15

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Query Match      100.0%; Score 57; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY      1 KWLQLFHKK 10
        |||||
Db       1 KWLQLFHKK 10

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RESULT 24
US-09-344-541A-16
; Sequence 16, Application US/09344541A
; Patent No. 6355616
; GENERAL INFORMATION:
; APPLICANT: Little, II, Roger G.
; APPLICANT: Lin, Jong J.
; APPLICANT: Gikonyo, J. G. Kinyua
; TITLE OF INVENTION: Derivative Compounds
; FILE REFERENCE: 110450501
; CURRENT APPLICATION NUMBER: US/09/344,541A
; CURRENT FILING DATE: 1999-06-25
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 10
; TYPE: PRT
; ORGANISM: derived from human
; FEATURE:
; OTHER INFORMATION: XMP.499
; NAME/KEY: SITE
; LOCATION: (1)
; OTHER INFORMATION: Position 1 is derivatized at the alpha-amino with:
; OTHER INFORMATION: 2-pyrazine carbonyl
; NAME/KEY: SITE
; LOCATION: (1)..(10)
; OTHER INFORMATION: Positions 1-10 are D-Amino Acids
; NAME/KEY: SITE
; LOCATION: (10)
; OTHER INFORMATION: AMIDATION-The C-terminus is Amidated
US-09-344-541A-16

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Query Match      100.0%; Score 57; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY      1 KWLQLFHKK 10
        |||||
Db       1 KWLQLFHKK 10

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RESULT 25
US-09-344-541A-17
; Sequence 17, Application US/09344541A
; Patent No. 6355616
; GENERAL INFORMATION:

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; APPLICANT: Little, II, Roger G.
; APPLICANT: Lin, Jong J.
; APPLICANT: Gikonyo, J. G. Kinyua
; TITLE OF INVENTION: Derivative Compounds
; FILE REFERENCE: 110450501
; CURRENT APPLICATION NUMBER: US/09/344,541A
; CURRENT FILING DATE: 1999-06-25
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 17
; LENGTH: 10
; TYPE: PRT
; ORGANISM: derived from human
; FEATURE:
; OTHER INFORMATION: XMP.500
; NAME/KEY: SITE
; LOCATION: (1)
; OTHER INFORMATION: Positions 1-10 are D-Amino Acids
; NAME/KEY: SITE
; LOCATION: (10)
; OTHER INFORMATION: AMIDATION-The C-terminus is Amidated
US-09-344-541A-17

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Query Match      100.0%; Score 57; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY      1 KWLQLFHKK 10
        |||||
Db       1 KWLQLFHKK 10

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RESULT 26
US-09-344-541A-18
; Sequence 18, Application US/09344541A
; Patent No. 6355616
; GENERAL INFORMATION:
; APPLICANT: Little, II, Roger G.
; APPLICANT: Lin, Jong J.
; APPLICANT: Gikonyo, J. G. Kinyua
; TITLE OF INVENTION: Derivative Compounds
; FILE REFERENCE: 110450501
; CURRENT APPLICATION NUMBER: US/09/344,541A
; CURRENT FILING DATE: 1999-06-25
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
; LENGTH: 10
; TYPE: PRT
; ORGANISM: derived from human
; FEATURE:
; OTHER INFORMATION: XMP.501
; NAME/KEY: SITE
; LOCATION: (1)
; OTHER INFORMATION: Position 1 is derivatized at the alpha-amino with:
; OTHER INFORMATION: 1-(4-imidazole) methylene carbonyl
; NAME/KEY: SITE
; LOCATION: (1)..(10)
; OTHER INFORMATION: Positions 1-10 are D-Amino Acids
; NAME/KEY: SITE
; LOCATION: (10)
; OTHER INFORMATION: AMIDATION-The C-terminus is Amidated
US-09-344-541A-18

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Query Match      100.0%; Score 57; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY      1 KWLQLFHKK 10

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Db      1 KWLQLFHKK 10
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RESULT 27
US-09-344-541A-19
; Sequence 19, Application US/09344541A
; Patent No. 6355616
; GENERAL INFORMATION:
; APPLICANT: Little, II, Roger G.
; APPLICANT: Lin, Jong J.
; APPLICANT: Gikonyo, J. G. Kinyua
; TITLE OF INVENTION: Derivative Compounds
; FILE REFERENCE: 11045US01
; CURRENT APPLICATION NUMBER: US/09/344,541A
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 19
; LENGTH: 10
; TYPE: PRT
; ORGANISM: derived from human
; FEATURE:
; NAME/KEY: SITE
; OTHER INFORMATION: XMP.503
; LOCATION: (1)
; OTHER INFORMATION: Position 1 is derivatized at the alpha-amino
; OTHER INFORMATION: with: 2-imino-1-imidazolidine methylene carbonyl
; NAME/KEY: SITE
; LOCATION: (1)..(10)
; OTHER INFORMATION: Positions 1-10 are D-Amino Acids
; NAME/KEY: SITE
; LOCATION: (10)
; OTHER INFORMATION: AMIDATION-The C-terminus is Amidated
US-09-344-541A-19

Query Match      100.0%; Score 57; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KWLQLFHKK 10
Db      1 KWLQLFHKK 10

RESULT 28
US-09-344-541A-20
; Sequence 20, Application US/09344541A
; Patent No. 6355616
; GENERAL INFORMATION:
; APPLICANT: Little, II, Roger G.
; APPLICANT: Lin, Jong J.
; APPLICANT: Gikonyo, J. G. Kinyua
; TITLE OF INVENTION: Derivative Compounds
; FILE REFERENCE: 11045US01
; CURRENT APPLICATION NUMBER: US/09/344,541A
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 10
; TYPE: PRT
; ORGANISM: derived from human
; FEATURE:
; NAME/KEY: SITE
; OTHER INFORMATION: XMP.503
; LOCATION: (1)
; OTHER INFORMATION: Position 1 is derivatized at the alpha-amino with:
; OTHER INFORMATION: pyridine carbonyl
; NAME/KEY: SITE
; LOCATION: (1)..(10)
; OTHER INFORMATION: Positions 1-10 are D-Amino Acids
; NAME/KEY: SITE

US-09-344-541A-20

Query Match      100.0%; Score 57; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KWLQLFHKK 10
Db      1 KWLQLFHKK 10

RESULT 29
US-09-344-541A-21
; Sequence 21, Application US/09344541A
; Patent No. 6355616
; GENERAL INFORMATION:
; APPLICANT: Little, II, Roger G.
; APPLICANT: Lin, Jong J.
; APPLICANT: Gikonyo, J. G. Kinyua
; TITLE OF INVENTION: Derivative Compounds
; FILE REFERENCE: 11045US01
; CURRENT APPLICATION NUMBER: US/09/344,541A
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 21
; LENGTH: 10
; TYPE: PRT
; ORGANISM: derived from human
; FEATURE:
; NAME/KEY: SITE
; OTHER INFORMATION: XMP.504
; LOCATION: (1)
; OTHER INFORMATION: Position 1 is derivatized at the alpha-amino with:
; OTHER INFORMATION: 3-piperidine carbonyl
; NAME/KEY: SITE
; LOCATION: (1)..(10)
; OTHER INFORMATION: Positions 1-10 are D-Amino Acids
; NAME/KEY: SITE
; LOCATION: (10)
; OTHER INFORMATION: AMIDATION-The C-terminus is Amidated
US-09-344-541A-21

Query Match      100.0%; Score 57; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KWLQLFHKK 10
Db      1 KWLQLFHKK 10

RESULT 30
US-09-344-541A-22
; Sequence 22, Application US/09344541A
; Patent No. 6355616
; GENERAL INFORMATION:
; APPLICANT: Little, II, Roger G.
; APPLICANT: Lin, Jong J.
; APPLICANT: Gikonyo, J. G. Kinyua
; TITLE OF INVENTION: Derivative Compounds
; FILE REFERENCE: 11045US01
; CURRENT APPLICATION NUMBER: US/09/344,541A
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 22
; LENGTH: 10
; TYPE: PRT
; ORGANISM: derived from human
; FEATURE:
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; OTHER INFORMATION: XMP.516
; NAME/KEY: SITE
; LOCATION: (1)
; OTHER INFORMATION: Position 1 is derivatized at the alpha-amino with:
; OTHER INFORMATION: acetyl
; NAME/KEY: SITE
; LOCATION: (9)
; OTHER INFORMATION: Position 9 is derivatized at the epsilon-amino
; OTHER INFORMATION: with: fluorescein
; NAME/KEY: SITE
; LOCATION: (1)...(10)
; OTHER INFORMATION: Positions 1-10 are D-Amino Acids
; NAME/KEY: SITE
; LOCATION: (10)
; OTHER INFORMATION: AMIDATION-The C-terminus is Amidated
US-09-344-541A-22

Query Match      100.0%; Score 57; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KWLQLFHKK 10
   |||||
Db 1 KWLQLFHKK 10

RESULT 31
US-09-344-541A-23
; Sequence 23, Application US/09344541A
; Patent No. 6355616
; GENERAL INFORMATION:
; APPLICANT: Little, II, Roger G.
; APPLICANT: Lin, Jong J.
; TITLE OF INVENTION: Derivative Compounds
; FILE REFERENCE: 11045US01
; CURRENT APPLICATION NUMBER: US/09/344.541A
; CURRENT FILING DATE: 1999-06-25
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 23
; LENGTH: 10
; TYPE: PRT
; ORGANISM: derived from human
; FEATURE:
; OTHER INFORMATION: XMP.517
; NAME/KEY: SITE
; LOCATION: (1)
; OTHER INFORMATION: Position 1 is derivatized at the alpha-amino with:
; OTHER INFORMATION: acetyl
; NAME/KEY: SITE
; LOCATION: (10)
; OTHER INFORMATION: Position 10 is derivatized at the epsilon-amino
; NAME/KEY: SITE
; LOCATION: (1)...(10)
; OTHER INFORMATION: with: fluorescein
; NAME/KEY: SITE
; LOCATION: (10)
; OTHER INFORMATION: Positions 1-10 are D-Amino Acid
; NAME/KEY: SITE
; LOCATION: (10)
; OTHER INFORMATION: AMIDATION-The C-terminus is Amidated
US-09-344-541A-23

Query Match      100.0%; Score 57; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KWLQLFHKK 10
   |||||
Db 1 KWLQLFHKK 10

RESULT 32
US-09-344-541A-24

```

```

; Sequence 24, Application US/09344541A
; Patent No. 6355616
; GENERAL INFORMATION:
; APPLICANT: Little, II, Roger G.
; APPLICANT: Lin, Jong J.
; TITLE OF INVENTION: Derivative Compounds
; FILE REFERENCE: 11045US01
; CURRENT APPLICATION NUMBER: US/09/344.541A
; CURRENT FILING DATE: 1999-06-25
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 24
; LENGTH: 10
; TYPE: PRT
; ORGANISM: derived from human
; FEATURE:
; OTHER INFORMATION: XMP.518
; NAME/KEY: SITE
; LOCATION: (1)
; OTHER INFORMATION: Position 1 is derivatized at the alpha-amino with:
; OTHER INFORMATION: acetyl
; NAME/KEY: SITE
; LOCATION: (10)
; OTHER INFORMATION: Position 10 is derivatized at the epsilon-amino
; NAME/KEY: SITE
; LOCATION: (1)...(10)
; OTHER INFORMATION: Positions 1-10 are D-Amino Acids
; NAME/KEY: SITE
; LOCATION: (10)
; OTHER INFORMATION: AMIDATION-The C-terminus is Amidated
US-09-344-541A-24

Query Match      100.0%; Score 57; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KWLQLFHKK 10
   |||||
Db 1 KWLQLFHKK 10

RESULT 33
US-09-344-541A-25
; Sequence 25, Application US/09344541A
; Patent No. 6355616
; GENERAL INFORMATION:
; APPLICANT: Little, II, Roger G.
; APPLICANT: Lin, Jong J.
; TITLE OF INVENTION: Derivative Compounds
; FILE REFERENCE: 11045US01
; CURRENT APPLICATION NUMBER: US/09/344.541A
; CURRENT FILING DATE: 1999-06-25
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 25
; LENGTH: 10
; TYPE: PRT
; ORGANISM: derived from human
; FEATURE:
; OTHER INFORMATION: XMP.519
; NAME/KEY: SITE
; LOCATION: (1)
; OTHER INFORMATION: Position 1 is derivatized at the alpha-amino with:
; OTHER INFORMATION: biotin-carbonyl
; NAME/KEY: SITE
; LOCATION: (1)...(10)
; OTHER INFORMATION: Positions 1-10 are D-Amino Acids
; NAME/KEY: SITE
; LOCATION: (10)
; OTHER INFORMATION: AMIDATION-The C-terminus is Amidated

```

US-09-344-541A-25

Query Match 100.0%; Score 57; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 KWLQLFHKK 10
| | | | | | | | | |
Db 1 KWLQLFHKK 10

RESULT 34

US-09-344-541A-26
; Sequence 26, Application US/09344541A
; Patent No. 6355616
; GENERAL INFORMATION:
; APPLICANT: Little, II, Roger G.
; APPLICANT: Lin, Jong J.
; APPLICANT: Gikonyo, J. G. Kinyua
; TITLE OF INVENTION: Derivative Compounds
; FILE REFERENCE: 11045US01
; CURRENT APPLICATION NUMBER: US/09/344,541A
; CURRENT FILING DATE: 1999-06-25
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 26
; LENGTH: 10
; TYPE: PRT
; ORGANISM: derived from human
; FEATURE:
; NAME/KEY: XMP.520
; NAME/KEY: SITE
; LOCATION: (1)
; OTHER INFORMATION: Position 1 is derivatized at the alpha-amino with:
; NAME/KEY: SITE
; LOCATION: (10)
; OTHER INFORMATION: Position 10 is derivatized at the carboxy terminus
; OTHER INFORMATION: with: 2-(N-fluorosceinyl)aminopropylamide
; NAME/KEY: SITE
; LOCATION: (1)...(10)
; OTHER INFORMATION: Position 1-10 are D-Amino Acids
US-09-344-541A-26

Query Match 100.0%; Score 57; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 KWLQLFHKK 10
| | | | | | | | | |
Db 1 KWLQLFHKK 10

RESULT 35

US-09-344-541A-27
; Sequence 27, Application US/09344541A
; Patent No. 6355616
; GENERAL INFORMATION:
; APPLICANT: Little, II, Roger G.
; APPLICANT: Lin, Jong J.
; APPLICANT: Gikonyo, J. G. Kinyua
; TITLE OF INVENTION: Derivative Compounds
; FILE REFERENCE: 11045US01
; CURRENT APPLICATION NUMBER: US/09/344,541A
; CURRENT FILING DATE: 1999-06-25
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 10
; TYPE: PRT
; ORGANISM: derived from human
; FEATURE:
; OTHER INFORMATION: XMP.521

NAME/KEY: SITE
LOCATION: (1)
OTHER INFORMATION: Position 1 is derivatized at the alpha-amino with:
NAME/KEY: SITE
LOCATION: (9)
OTHER INFORMATION: Position 9 is derivatized at the epsilon-amino
OTHER INFORMATION: with: Diethyl-carbonyl
NAME/KEY: SITE
LOCATION: (1)...(10)
OTHER INFORMATION: Positions 1-10 are D-Amino Acids
NAME/KEY: SITE
LOCATION: (10)
OTHER INFORMATION: AMIDATION-The C-terminus is Amidated
US-09-344-541A-27

Query Match 100.0%; Score 57; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 KWLQLFHKK 10
| | | | | | | | | |
Db 1 KWLQLFHKK 10

RESULT 36

US-09-344-541A-28
; Sequence 28, Application US/09344541A
; Patent No. 6355616
; GENERAL INFORMATION:
; APPLICANT: Little, II, Roger G.
; APPLICANT: Lin, Jong J.
; APPLICANT: Gikonyo, J. G. Kinyua
; TITLE OF INVENTION: Derivative Compounds
; FILE REFERENCE: 11045US01
; CURRENT APPLICATION NUMBER: US/09/344,541A
; CURRENT FILING DATE: 1999-06-25
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 28
; LENGTH: 10
; TYPE: PRT
; ORGANISM: derived from human
; FEATURE:
; OTHER INFORMATION: XMP.522
; NAME/KEY: SITE
; LOCATION: (1)
; OTHER INFORMATION: Position 1 is derivatized at the alpha-amino with:
; NAME/KEY: SITE
; LOCATION: (9)
; OTHER INFORMATION: Position 9 is derivatized at the epsilon-amino
; OTHER INFORMATION: with: 5-azido-2-nitrobenzoyl
NAME/KEY: SITE
LOCATION: (1)...(10)
OTHER INFORMATION: Positions 1-10 are D-Amino Acids
NAME/KEY: SITE
LOCATION: (10)
OTHER INFORMATION: AMIDATION-The C-terminus is Amidated
US-09-344-541A-28

Query Match 100.0%; Score 57; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 KWLQLFHKK 10
| | | | | | | | | |
Db 1 KWLQLFHKK 10

RESULT 37

US-09-344-541A-29
; Sequence 29, Application US/09344541A

```
Patent No. 6355616
GENERAL INFORMATION:
APPLICANT: Little, II, Roger G.
APPLICANT: Lin, Jong J.
APPLICANT: Gikonyo, J. G. Kinjua
TITLE OF INVENTION: Derivative Compounds
FILE REFERENCE: 11045US01
CURRENT APPLICATION NUMBER: US/09/344,541A
CURRENT FILING DATE: 1999-06-25
NUMBER OF SEQ ID NOS: 61
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 29
LENGTH: 10
TYPE: PRT
ORGANISM: derived from human
FEATURE:
OTHER INFORMATION: XMP.523
NAME/KEY: SITE
LOCATION: (1)
OTHER INFORMATION: Position 1 is derivatized at the alpha-amino with:
NAME/KEY: SITE
LOCATION: (1)
OTHER INFORMATION: Positions 1-10 are D-Amino Acids
NAME/KEY: SITE
LOCATION: (10)
OTHER INFORMATION: AMIDATION-The C-terminus is Amidated
US-09-344-541A-29

Query Match 100.0%; Score 57; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
DB 1 KWLQLFHKK 10

RESULT 38
US-09-344-541A-30
Sequence 30, Application US/09344541A
Patent No. 6355616
GENERAL INFORMATION:
APPLICANT: Little, II, Roger G.
APPLICANT: Lin, Jong J.
APPLICANT: Gikonyo, J. G. Kinjua
TITLE OF INVENTION: Derivative Compounds
FILE REFERENCE: 11045US01
CURRENT APPLICATION NUMBER: US/09/344,541A
CURRENT FILING DATE: 1999-06-25
NUMBER OF SEQ ID NOS: 61
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 30
LENGTH: 10
TYPE: PRT
ORGANISM: derived from human
FEATURE:
OTHER INFORMATION: XMP.524
NAME/KEY: SITE
LOCATION: (1)
OTHER INFORMATION: Position 1 is derivatized at the alpha-amino with:
NAME/KEY: SITE
LOCATION: (1)
OTHER INFORMATION: Positions 1-10 are D-Amino Acids
```

```
NAME/KEY: SITE
LOCATION: (10)
OTHER INFORMATION: AMIDATION-The C-terminus is Amidated
US-09-344-541A-30

Query Match 100.0%; Score 57; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
DB 1 KWLQLFHKK 10

RESULT 39
US-09-344-541A-31
Sequence 31, Application US/09344541A
Patent No. 6355616
GENERAL INFORMATION:
APPLICANT: Little, II, Roger G.
APPLICANT: Lin, Jong J.
APPLICANT: Gikonyo, J. G. Kinjua
TITLE OF INVENTION: Derivative Compounds
FILE REFERENCE: 11045US01
CURRENT APPLICATION NUMBER: US/09/344,541A
CURRENT FILING DATE: 1999-06-25
NUMBER OF SEQ ID NOS: 61
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 31
LENGTH: 10
TYPE: PRT
ORGANISM: derived from human
FEATURE:
OTHER INFORMATION: XMP.525
NAME/KEY: SITE
LOCATION: (1)
OTHER INFORMATION: Position 1 is derivatized at the alpha-amino with:
NAME/KEY: SITE
LOCATION: (9)
OTHER INFORMATION: Position 9 is derivatized at the epsilon-amino
OTHER INFORMATION: with: 5-azido-2-nitrobenzoyl
NAME/KEY: SITE
LOCATION: (1)
OTHER INFORMATION: Positions 1-10 are D-Amino Acids
NAME/KEY: SITE
LOCATION: (10)
OTHER INFORMATION: AMIDATION-The C-terminus is Amidated
US-09-344-541A-31

Query Match 100.0%; Score 57; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
DB 1 KWLQLFHKK 10

RESULT 40
US-09-344-541A-32
Sequence 32, Application US/09344541A
Patent No. 6355616
GENERAL INFORMATION:
APPLICANT: Little, II, Roger G.
APPLICANT: Lin, Jong J.
APPLICANT: Gikonyo, J. G. Kinjua
TITLE OF INVENTION: Derivative Compounds
FILE REFERENCE: 11045US01
CURRENT APPLICATION NUMBER: US/09/344,541A
CURRENT FILING DATE: 1999-06-25
NUMBER OF SEQ ID NOS: 61
SOFTWARE: PatentIn Ver. 2.1
```

```
SEQ ID NO 32
LENGTH: 10
TYPE: PRT
ORGANISM: derived from human
FEATURE:
OTHER INFORMATION: XMP.526
NAME/KEY: SITE
LOCATION: (1)
OTHER INFORMATION: Position 1 is derivatized at the alpha-amino with:
acetyl
NAME/KEY: SITE
LOCATION: (9)
OTHER INFORMATION: Position 9 is derivatized at the epsilon-amino
with: N-hydroxysuccinimidy1-4-azidobenzoyl
NAME/KEY: SITE
LOCATION: (1)..(10)
OTHER INFORMATION: Positions 1-10 are D-Amino Acids
NAME/KEY: SITE
LOCATION: (10)
OTHER INFORMATION: AMIDATION-The C-terminus is Amidated
US-09-344-541A-32
```

```
Query Match 100.0%; Score 57; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 KWLQLFHKK 10
|||||
```

```
DB 1 KWLQLFHKK 10
```

```
RESULT 41
US-09-344-541A-33
Sequence 33, Application US/09344541A
Patent No. 6355616
GENERAL INFORMATION:
APPLICANT: Little, II, Roger G.
APPLICANT: Lin, Jong J.
APPLICANT: Gikonyo, J. G. Kinyua
TITLE OF INVENTION: Derivative Compounds
FILE REFERENCE: 11045US01
CURRENT APPLICATION NUMBER: US/09/344,541A
CURRENT FILING DATE: 1999-06-25
NUMBER OF SEQ ID NOS: 61
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 33
LENGTH: 10
TYPE: PRT
ORGANISM: derived from human
FEATURE:
OTHER INFORMATION: XMP.527
NAME/KEY: SITE
LOCATION: (-)
OTHER INFORMATION: Position 1 is derivatized at the alpha-amino with:
acetyl
NAME/KEY: SITE
LOCATION: (9)
OTHER INFORMATION: Position 9 is derivatized at the epsilon-amino
with: N-hydroxysulphosuccinimidy1-4-azidobenzoyl
NAME/KEY: SITE
LOCATION: (1)..(10)
OTHER INFORMATION: Positions 1-10 are D-Amino Acids
NAME/KEY: SITE
LOCATION: (10)
OTHER INFORMATION: AMIDATION-The C-terminus is Amidated
US-09-344-541A-33
```

```
Query Match 100.0%; Score 57; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 KWLQLFHKK 10
|||||
```

```
DB 1 KWLQLFHKK 10
RESULT 42
US-09-344-541A-35
Sequence 35, Application US/09344541A
Patent No. 6355616
GENERAL INFORMATION:
APPLICANT: Little, II, Roger G.
APPLICANT: Lin, Jong J.
APPLICANT: Gikonyo, J. G. Kinyua
TITLE OF INVENTION: Derivative Compounds
FILE REFERENCE: 11045US01
CURRENT APPLICATION NUMBER: US/09/344,541A
CURRENT FILING DATE: 1999-06-25
NUMBER OF SEQ ID NOS: 61
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 35
LENGTH: 10
TYPE: PRT
ORGANISM: derived from human
FEATURE:
OTHER INFORMATION: XMP.533
NAME/KEY: SITE
LOCATION: (1)
OTHER INFORMATION: Position 1 is derivatized at the alpha-amino with:
2- quinoxal carbonyl
NAME/KEY: SITE
LOCATION: (1)..(10)
OTHER INFORMATION: Positions 1-10 are D-Amino Acids
NAME/KEY: SITE
LOCATION: (10)
OTHER INFORMATION: AMIDATION-The C-terminus is Amidated
US-09-344-541A-35
```

```
Query Match 100.0%; Score 57; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 KWLQLFHKK 10
|||||
```

```
DB 1 KWLQLFHKK 10
```

```
RESULT 43
US-09-344-541A-36
Sequence 36, Application US/09344541A
Patent No. 6355616
GENERAL INFORMATION:
APPLICANT: Little, II, Roger G.
APPLICANT: Lin, Jong J.
APPLICANT: Gikonyo, J. G. Kinyua
TITLE OF INVENTION: Derivative Compounds
FILE REFERENCE: 11045US01
CURRENT APPLICATION NUMBER: US/09/344,541A
CURRENT FILING DATE: 1999-06-25
NUMBER OF SEQ ID NOS: 61
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 36
LENGTH: 10
TYPE: PRT
ORGANISM: derived from human
FEATURE:
OTHER INFORMATION: XMP.534
NAME/KEY: SITE
LOCATION: (1)
OTHER INFORMATION: Position 1 is derivatized at the alpha-amino with:
biphenylene-carbonyl
NAME/KEY: SITE
LOCATION: (1)..(10)
OTHER INFORMATION: Positions 1-10 are D-Amino Acids
NAME/KEY: SITE
LOCATION: (10)
```

OTHER INFORMATION: AMIDATION The C-terminus is Amidated
US-09-344-541A-36

Query Match 100.0%; Score 57; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
|||||

DB 1 KWLQLFHKK 10

RESULT 44

US-09-344-541A-37

Sequence 37, Application US/09344541A
Patent No. 6355616

GENERAL INFORMATION:

APPLICANT: Little, II, Roger G.

APPLICANT: Lin, Jong J.

APPLICANT: Gikonyo, J. G. Kinyua

TITLE OF INVENTION: Derivative Compounds

FILE REFERENCE: 11045US01

CURRENT APPLICATION NUMBER: US/09/344.541A

CURRENT FILING DATE: 1999-06-25

NUMBER OF SEQ ID NOS: 61

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 37

LENGTH: 10

TYPE: PRT

ORGANISM: derived from human

FEATURE:

OTHER INFORMATION: XMP.535

NAME/KEY: SITE

LOCATION: (1)

OTHER INFORMATION: Position 1 is derivatized at the alpha-amino with:

OTHER INFORMATION: anthraquinone carbonyl

NAME/KEY: SITE

LOCATION: (1)..(10)

OTHER INFORMATION: Positions 1-10 are D-Amino Acids

NAME/KEY: SITE

LOCATION: (10)

OTHER INFORMATION: AMIDATION-The C-terminus is Amidated

US-09-344-541A-37

Query Match 100.0%; Score 57; DB 4; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.0015;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10

|||||

DB 1 KWLQLFHKK 10

RESULT 45

US-09-344-541A-38

Sequence 38, Application US/09344541A

Patent No. 6355616

GENERAL INFORMATION:

APPLICANT: Little, II, Roger G.

APPLICANT: Lin, Jong J.

APPLICANT: Gikonyo, J. G. Kinyua

TITLE OF INVENTION: Derivative Compounds

FILE REFERENCE: 11045US01

CURRENT APPLICATION NUMBER: US/09/344.541A

CURRENT FILING DATE: 1999-06-25

NUMBER OF SEQ ID NOS: 61

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 38

LENGTH: 10

TYPE: PRT

ORGANISM: derived from human

FEATURE:

OTHER INFORMATION: XMP.536

NAME/KEY: SITE
LOCATION: (1)
OTHER INFORMATION: Position 1 is derivatized at the alpha-amino with:
OTHER INFORMATION: benzofuran-carbonyl

NAME/KEY: SITE

LOCATION: (1)..(10)

OTHER INFORMATION: Positions 1-10 are D-Amino Acids

NAME/KEY: SITE

LOCATION: (1)

OTHER INFORMATION: AMIDATION-The C-terminus is Amidated

US-09-344-541A-38

Query Match 100.0%; Score 57; DB 4; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.0015;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10

|||||

DB 1 KWLQLFHKK 10

RESULT 46

US-09-344-541A-39

Sequence 39, Application US/09344541A

Patent No. 6355616

GENERAL INFORMATION:

APPLICANT: Little, II, Roger G.

APPLICANT: Lin, Jong J.

APPLICANT: Gikonyo, J. G. Kinyua

TITLE OF INVENTION: Derivative Compounds

FILE REFERENCE: 11045US01

CURRENT APPLICATION NUMBER: US/09/344.541A

CURRENT FILING DATE: 1999-06-25

NUMBER OF SEQ ID NOS: 61

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 39

LENGTH: 10

TYPE: PRT

ORGANISM: derived from human

FEATURE:

OTHER INFORMATION: XMP.545

NAME/KEY: SITE

LOCATION: (1)

OTHER INFORMATION: Position 1 is derivatized at the alpha-amino with:

OTHER INFORMATION: indole-carbonyl

NAME/KEY: SITE

LOCATION: (1)..(10)

OTHER INFORMATION: Positions 1-10 are D-Amino Acids

NAME/KEY: SITE

LOCATION: (10)

OTHER INFORMATION: AMIDATION-The C-terminus is Amidated

US-09-344-541A-39

Query Match

100.0%; Score 57; DB 4; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.0015;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10

|||||

DB 1 KWLQLFHKK 10

RESULT 47

US-09-344-541A-40

Sequence 40, Application US/09344541A

Patent No. 6355616

GENERAL INFORMATION:

APPLICANT: Little, II, Roger G.

APPLICANT: Lin, Jong J.

APPLICANT: Gikonyo, J. G. Kinyua

TITLE OF INVENTION: Derivative Compounds

FILE REFERENCE: 11045US01

CURRENT APPLICATION NUMBER: US/09/344.541A

; CURRENT FILING DATE: 1959-06-25

; NUMBER OF SEQ ID NOS: 61

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 40

; LENGTH: 10

; TYPE: PRT

; ORGANISM: derived from human

; FEATURE:

; OTHER INFORMATION: XMP.546

; NAME/KEY: SITE

; LOCATION: (1)

; OTHER INFORMATION: Position 1 is derivatized at the alpha-amino with:

; OTHER INFORMATION: 1-isoguinoline-carbonyl

; NAME/KEY: SITE

; LOCATION: (1)..(10)

; OTHER INFORMATION: Positions 1-10 are D-Amino Acids

; NAME/KEY: SITE

; LOCATION: (10)

; OTHER INFORMATION: AMIDATION-The C-terminus is Amidated

US-09-344-541A-40

Query Match 100.0%; Score 57; DB 4; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.0015;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10

DB 1 KWLQLFHKK 10

RESULT 48

US-09-344-541A-41

; Sequence 41, Application US/09344541A

; Patent No. 6355616

; GENERAL INFORMATION:

; APPLICANT: Little, II, Roger G.

; APPLICANT: Lin, Jong J.

; APPLICANT: Gikonyo, J. G. Kinyua

; TITLE OF INVENTION: Derivative Compounds

; FILE REFERENCE: 11045US01

; CURRENT APPLICATION NUMBER: US/09/344,541A

; CURRENT FILING DATE: 1959-06-25

; NUMBER OF SEQ ID NOS: 61

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 41

; LENGTH: 10

; TYPE: PRT

; ORGANISM: derived from human

; FEATURE:

; OTHER INFORMATION: XMP.560

; NAME/KEY: SITE

; LOCATION: (1)

; OTHER INFORMATION: Position 1 is derivatized at the alpha-amino with:

; OTHER INFORMATION: salicylic-carbonyl

; NAME/KEY: SITE

; LOCATION: (1)..(10)

; OTHER INFORMATION: Positions 1-10 are D-Amino Acids

; NAME/KEY: SITE

; LOCATION: (10)

; OTHER INFORMATION: AMIDATION-The C-terminus is Amidated

US-09-344-541A-41

Query Match

Best Local Similarity 100.0%; Score 57; DB 4; Length 10;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10

DB 1 KWLQLFHKK 10

RESULT 49

US-09-344-541A-43

; Sequence 43, Application US/09344541A

; Patent No. 6355616

; GENERAL INFORMATION:

; APPLICANT: Little, II, Roger G.

; APPLICANT: Lin, Jong J.

; APPLICANT: Gikonyo, J. G. Kinyua

; TITLE OF INVENTION: Derivative Compounds

; FILE REFERENCE: 11045US01

; CURRENT APPLICATION NUMBER: US/09/344,541A

; CURRENT FILING DATE: 1959-06-25

; NUMBER OF SEQ ID NOS: 61

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 43

; LENGTH: 10

; TYPE: PRT

; ORGANISM: derived from human

; FEATURE:

; OTHER INFORMATION: XMP.596

; NAME/KEY: SITE

; LOCATION: (1)

; OTHER INFORMATION: Position 1 is derivatized at the alpha-amino with:

; OTHER INFORMATION: quinaldic-carbonyl

; NAME/KEY: SITE

; LOCATION: (1)..(10)

; OTHER INFORMATION: Positions 1-10 are D-Amino Acids

; NAME/KEY: SITE

; LOCATION: (10)

; OTHER INFORMATION: AMIDATION-The C-terminus is Amidated

US-09-344-541A-43

Query Match

Best Local Similarity 100.0%; Score 57; DB 4; Length 10;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10

DB 1 KWLQLFHKK 10

RESULT 50

US-09-344-541A-48

; Sequence 48, Application US/09344541A

; Patent No. 6355616

; GENERAL INFORMATION:

; APPLICANT: Little, II, Roger G.

; APPLICANT: Lin, Jong J.

; APPLICANT: Gikonyo, J. G. Kinyua

; TITLE OF INVENTION: Derivative Compounds

; FILE REFERENCE: 11045US01

; CURRENT APPLICATION NUMBER: US/09/344,541A

; CURRENT FILING DATE: 1959-06-25

; NUMBER OF SEQ ID NOS: 61

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 48

; LENGTH: 10

; TYPE: PRT

; ORGANISM: derived from human

; FEATURE:

; OTHER INFORMATION: XMP.618

; NAME/KEY: SITE

; LOCATION: (1)

; OTHER INFORMATION: Position 1 is derivatized at the alpha-amino with:

; OTHER INFORMATION: 2-nitro-3-chloro-benzoyl

; NAME/KEY: SITE

; LOCATION: (1)..(10)

; OTHER INFORMATION: Positions 1-10 are D-Amino Acids

; NAME/KEY: SITE

; LOCATION: (10)

; OTHER INFORMATION: AMIDATION-The C-terminus is Amidated

US-09-344-541A-48

Query Match

Best Local Similarity 100.0%; Score 57; DB 4; Length 10;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
|||||

Db 1 KWLQLFHKK 10

RESULT 51

US-09-344-541A-49
; Sequence 49, Application US/09344541A
; Patent No. 635615
; GENERAL INFORMATION:
; APPLICANT: Little, II, Roger G.
; APPLICANT: Lin, Jong J.
; APPLICANT: Gikonyo, J. G. Kingua
; TITLE OF INVENTION: Derivative Compounds
; FILE REFERENCE: 110450501
; CURRENT APPLICATION NUMBER: US/09/344.541A
; CURRENT FILING DATE: 1999-06-23
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 49
; LENGTH: 10
; TYPE: PRT
; ORGANISM: derived from human
; FEATURE:
; OTHER INFORMATION: XMP.620
; NAME/KEY: SITE
; LOCATION: (1)..(2)
; OTHER INFORMATION: Positions 1-2 are D-amino acids
; NAME/KEY: SITE
; LOCATION: (9)..(10)
; OTHER INFORMATION: Positions 9-10 are D-amino acids
; NAME/KEY: SITE
; LOCATION: (3)..(8)
; OTHER INFORMATION: Positions 3-8 are L-amino acids
; NAME/KEY: SITE
; LOCATION: (10)
; OTHER INFORMATION: AMIDATION=The C-terminus is Amidated

Query Match 100.0%; Score 57; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
|||||

Db 1 KWLQLFHKK 10

RESULT 52

US-09-545-112-3
; Sequence 3, Application US/09545112
; Patent No. 6376211
; GENERAL INFORMATION:
; APPLICANT: Little, II, Roger G.
; APPLICANT: Abrahamson, Susan
; TITLE OF INVENTION: AGENTS AND METHODS FOR INHIBITING FL/FO ATPASE
; FILE REFERENCE: 27129/36224
; CURRENT APPLICATION NUMBER: US/09/545.112
; CURRENT FILING DATE: 2000-04-06
; EARLIER APPLICATION NUMBER: 60/143,373
; EARLIER FILING DATE: 1999-07-12
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: artificial

; NAME/KEY: SITE
; LOCATION: (1)..(10)
; OTHER INFORMATION: Positions 1-10 are D-amino acids
; FEATURE:
; OTHER INFORMATION: The C-terminus is Amidated
US-09-545-112-3

Query Match 100.0%; Score 57; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
|||||

Db 1 KWLQLFHKK 10

RESULT 53

US-09-545-112-5
; Sequence 5, Application US/09545112
; Patent No. 6376211
; GENERAL INFORMATION:
; APPLICANT: Little, II, Roger G.
; APPLICANT: Abrahamson, Susan
; TITLE OF INVENTION: AGENTS AND METHODS FOR INHIBITING FL/FO ATPASE
; FILE REFERENCE: 27129/36224
; CURRENT APPLICATION NUMBER: US/09/545.112
; CURRENT FILING DATE: 2000-04-06
; EARLIER APPLICATION NUMBER: 60/143,373
; EARLIER FILING DATE: 1999-07-12
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: artificial
; OTHER INFORMATION: peptide XMP.416
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1)..(10)
; OTHER INFORMATION: Positions 1-10 are D-amino acids
; FEATURE:
; OTHER INFORMATION: The C-terminus is Amidated
; FEATURE:
; OTHER INFORMATION: 8-amino-octanyl group; NH2-(CH2)7-CO at N-Terminus

Query Match 100.0%; Score 57; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
|||||

Db 1 KWLQLFHKK 10

RESULT 54

US-09-543-955-3
; Sequence 3, Application US/09543955
; Patent No. 6436660
; GENERAL INFORMATION:
; APPLICANT: Little, II, Roger G.
; TITLE OF INVENTION: IDENTIFICATION OF NOVEL ANTIMICROBIAL AGENTS USING
; FILE REFERENCE: 27129/36226
; CURRENT APPLICATION NUMBER: US/09/543.955
; CURRENT FILING DATE: 2000-04-06
; EARLIER APPLICATION NUMBER: 60/143,290
; EARLIER FILING DATE: 1999-07-12
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3

```

; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: artificial
; OTHER INFORMATION: peptide XMP.365
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1)..(10)
; OTHER INFORMATION: Positions 1-10 are D-amino acids
; FEATURE:
; OTHER INFORMATION: The C-terminus is Amidated
US-09-543-955-3

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```

Query Match          100.0%; Score 57; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 1 KWLQLFHKK 10
    |||||
Db 1 KWLQLFHKK 10

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RESULT 55

```

US-09-543-955-5
; Sequence 5, Application US/09543955
; Patent No. 5436660

```

```

; GENERAL INFORMATION:
; APPLICANT: Litlig, Il, Roger G.

```

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; TITLE OF INVENTION: IDENTIFICATION OF NOVEL ANTIMICROBIAL AGENTS USING
; TITLE OF INVENTION: METABOLIC OXIDATION-REDUCTION INDICATOR DYES
; FILE REFERENCE: 27129/36226
; CURRENT APPLICATION NUMBER: US/09/543,955
; CURRENT FILING DATE: 2000-04-06
; EARLIER APPLICATION NUMBER: 62/143,290
; EARLIER FILING DATE: 1999-07-12
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: artificial
; OTHER INFORMATION: peptide XMP.416
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1)..(10)
; OTHER INFORMATION: Positions 1-10 are D-amino acids
; FEATURE:
; OTHER INFORMATION: The C-terminus is Amidated
; FEATURE:
; OTHER INFORMATION: 8-amino-octanyl group: NH2-(CH2)7-OC at N-Terminus
US-09-543-955-5

```

```

Query Match          100.0%; Score 57; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 1 KWLQLFHKK 10
    |||||
Db 1 KWLQLFHKK 10

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RESULT 56

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PCT-0595-09262-126
; Sequence 126, Application PC/TUS9509262
; GENERAL INFORMATION:

```

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; APPLICANT:
; TITLE OF INVENTION: Anti-Fungal Peptides
; NUMBER OF SEQUENCES: 206
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun

```

```

; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/09262
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/372,105
; FILING DATE: 13-JAN-95
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/306,473
; FILING DATE: 15-SEP-94
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/273,540
; FILING DATE: 11-JUL-94
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/209,762
; FILING DATE: 11-MAR-94
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/183,422
; FILING DATE: 14-JAN-94
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/093,202
; FILING DATE: 15-JUL-93
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/030,644
; FILING DATE: 12-MAR-93
; ATTORNEY/AGENT INFORMATION:
; NAME: Borun, Michael F.
; REGISTRATION NUMBER: 25,447
; REFERENCE/DOCKET NUMBER: 27129/10040
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 126:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: "XMP.293"
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: C-Terminus
; OTHER INFORMATION: /label= Amidation
; OTHER INFORMATION: /note= "The C-Terminus is Amidated"
PCT-US95-09262-126

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Query Match          100.0%; Score 57; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 1 KWLQLFHKK 10
    |||||
Db 1 KWLQLFHKK 10

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RESULT 57

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PCT-US95-09262-194
; Sequence 194, Application PC/TUS9509262
; GENERAL INFORMATION:

```

```

; APPLICANT:
; TITLE OF INVENTION: Anti-Fungal Peptides

```

1 NUMBER OF SEQUENCES: 206
2 CORRESPONDENCE ADDRESS:
3 ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
4 STREET: 6300 Sears Tower, 233 South Wacker Drive
5 CITY: Chicago
6 STATE: Illinois
7 COUNTRY: United States of America
8 ZIP: 60606-6402
9
10 COMPUTER READABLE FORM:
11 MEDIUM TYPE: Floppy disk
12 COMPUTER: IBM PC compatible
13 OPERATING SYSTEM: PC-DOS/MS-DOS
14 SOFTWARE: PatentIn Release #1.0, Version #1.25
15 CURRENT APPLICATION DATA:
16 APPLICATION NUMBER: PCT/US95/09262
17 FILING DATE:
18 PRIOR APPLICATION DATA:
19 APPLICATION NUMBER: 08/372,105
20 FILING DATE: 13-JAN-95
21 PRIOR APPLICATION DATA:
22 APPLICATION NUMBER: 08/306,473
23 FILING DATE: 15-SEP-94
24 PRIOR APPLICATION DATA:
25 APPLICATION NUMBER: 08/273,540
26 FILING DATE: 11-JUL-94
27 PRIOR APPLICATION DATA:
28 APPLICATION NUMBER: 08/209,762
29 FILING DATE: 11-MAR-94
30 PRIOR APPLICATION DATA:
31 APPLICATION NUMBER: 08/183,222
32 FILING DATE: 14-JAN-94
33 PRIOR APPLICATION DATA:
34 APPLICATION NUMBER: 08/053,202
35 FILING DATE: 15-JUL-93
36 PRIOR APPLICATION DATA:
37 APPLICATION NUMBER: 08/030,644
38 FILING DATE: 12-MAR-93
39 ATTORNEY/AGENT INFORMATION:
40 NAME: Borun, Michael F.
41 REGISTRATION NUMBER: 25,447
42 REFERENCE/DOCKET NUMBER: 27129/10040
43 TELECOMMUNICATION INFORMATION:
44 TELEPHONE: 312/474-5300
45 TELEFAX: 312/474-0448
46 TELEX: 25-3856
47 INFORMATION FOR SEQ ID NO: 194:
48 SEQUENCE CHARACTERISTICS:
49 LENGTH: 10 amino acids
50 TYPE: amino acid
51 TOPOLOGY: linear
52 MOLECULE TYPE: peptide
53 FEATURE:
54 NAME/KEY: misc_feature
55 OTHER INFORMATION: "XMP.363"
56 FEATURE:
57 NAME/KEY: Modified-site
58 LOCATION: 1, 9 & 10
59 OTHER INFORMATION: /label= D-Lys
60 OTHER INFORMATION: /note= "Positions 1, 9 & 10 are D-lysine."
61 FEATURE:
62 NAME/KEY: Modified-site
63 LOCATION: 2
64 OTHER INFORMATION: /label= D-Trp
65 OTHER INFORMATION: /note= "Position 2 is D-tryptophan."
66 FEATURE:
67 NAME/KEY: Modified-site
68 LOCATION: C-Terminus
69 OTHER INFORMATION: /label= Amidation
70 OTHER INFORMATION: /note= "The C-terminus is Amidated"
71 PCT-US95-09262-194

Query Match 100.0%; Score 57; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 KWLQLFHKK 10
1:|||||
1b 1 KWLQLFHKK 10
1:|||||
RESULT 58
PCT-US95-09262-195
1 Sequence 195, Application PCT/US9509262
2 GENERAL INFORMATION:
3 APPLICANT:
4 TITLE OF INVENTION: Anti-Fungal Peptides
5 NUMBER OF SEQUENCES: 206
6 CORRESPONDENCE ADDRESS:
7 ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
8 STREET: 6300 Sears Tower, 233 South Wacker Drive
9 CITY: Chicago
10 STATE: Illinois
11 COUNTRY: United States of America
12 ZIP: 60606-6402
13 COMPUTER READABLE FORM:
14 MEDIUM TYPE: Floppy disk
15 COMPUTER: IBM PC compatible
16 OPERATING SYSTEM: PC-DOS/MS-DOS
17 SOFTWARE: PatentIn Release #1.0, Version #1.25
18 CURRENT APPLICATION DATA:
19 APPLICATION NUMBER: PCT/US95/09262
20 FILING DATE:
21 PRIOR APPLICATION DATA:
22 APPLICATION NUMBER: 08/372,105
23 FILING DATE: 13-JAN-95
24 PRIOR APPLICATION DATA:
25 APPLICATION NUMBER: 08/306,473
26 FILING DATE: 15-SEP-94
27 PRIOR APPLICATION DATA:
28 APPLICATION NUMBER: 08/273,540
29 FILING DATE: 11-JUL-94
30 PRIOR APPLICATION DATA:
31 APPLICATION NUMBER: 08/209,762
32 FILING DATE: 11-MAR-94
33 PRIOR APPLICATION DATA:
34 APPLICATION NUMBER: 08/183,222
35 FILING DATE: 14-JAN-94
36 PRIOR APPLICATION DATA:
37 APPLICATION NUMBER: 08/093,202
38 FILING DATE: 15-JUL-93
39 PRIOR APPLICATION DATA:
40 APPLICATION NUMBER: 08/030,644
41 FILING DATE: 12-MAR-93
42 ATTORNEY/AGENT INFORMATION:
43 NAME: Borun, Michael F.
44 REGISTRATION NUMBER: 25,447
45 REFERENCE/DOCKET NUMBER: 27129/10040
46 TELECOMMUNICATION INFORMATION:
47 TELEPHONE: 312/474-6300
48 TELEFAX: 312/474-0448
49 TELEX: 25-3856
50 INFORMATION FOR SEQ ID NO: 195:
51 SEQUENCE CHARACTERISTICS:
52 LENGTH: 10 amino acids
53 TYPE: amino acid
54 TOPOLOGY: linear
55 MOLECULE TYPE: peptide
56 FEATURE:
57 NAME/KEY: misc_feature
58 OTHER INFORMATION: "XMP.364"
59 FEATURE:
60 NAME/KEY: Modified-site
61 LOCATION: 1
62 OTHER INFORMATION: /label= Acetylated
63 OTHER INFORMATION: /note= "Position 1 is acetylated"
64 FEATURE:

NAME/KEY: Modified-site
LOCATION: 1, 9 & 10
OTHER INFORMATION: /label= D-Tyr
OTHER INFORMATION: /note= "Positions 1, 9 & 10 are D-tyrosine."
FEATURE:
NAME/KEY: Modified-site
LOCATION: 2
OTHER INFORMATION: /label= D-Tyr
OTHER INFORMATION: /note= "Position 2 is D-tyrosine."
FEATURE:
NAME/KEY: Modified-site
LOCATION: C-Terminus
OTHER INFORMATION: /label= Amidation
OTHER INFORMATION: /note= "The C-Terminus is Amidated"
PCT-US95-09262-195
Query Match 100.0%; Score 57; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. NO. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 KWLQLFHKK 10
Db 1 KWLQLFHKK 10
RESULT 59
PCT-US95-09262-196
Sequence 196, Application PC/TUS9509262
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: Anti-Fungal Peptides
NUMBER OF SEQUENCES: 206
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/09262
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/372,105
FILING DATE: 13-JAN-95
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/306,473
FILING DATE: 15-SEP-94
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/273,540
FILING DATE: 11-JUL-94
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/209,762
FILING DATE: 11-MAR-94
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/183,222
FILING DATE: 15-JUL-93
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/030,644
FILING DATE: 12-MAR-93
ATTORNEY/AGENT INFORMATION:
NAME: Borun, Michael F.
REGISTRATION NUMBER: 25,447
REFERENCE/DOCKET NUMBER: 27125/10040
TELECOMMUNICATION INFORMATION:

TELEPHONE: 312/474-6300
TELEFAX: 312/474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 196:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: misc_feature
OTHER INFORMATION: "XMP.365"
FEATURE:
NAME/KEY: Modified-site
LOCATION: 1-10
OTHER INFORMATION: /label= D-Amino Acids
OTHER INFORMATION: /note= "Positions 1-10 are D-amino acids"
FEATURE:
NAME/KEY: Modified-site
LOCATION: C-Terminus
OTHER INFORMATION: /label= Amidation
OTHER INFORMATION: /note= "The C-Terminus is Amidated"
PCT-US95-09262-196
Query Match 100.0%; Score 57; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. NO. 0.0015;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 KWLQLFHKK 10
Db 1 KWLQLFHKK 10
RESULT 60
PCT-US95-09262-197
Sequence 197, Application PC/TUS9509262
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: Anti-Fungal Peptides
NUMBER OF SEQUENCES: 206
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/09262
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/372,105
FILING DATE: 13-JAN-95
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/306,473
FILING DATE: 15-SEP-94
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/273,540
FILING DATE: 11-JUL-94
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/209,762
FILING DATE: 11-MAR-94
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/183,222
FILING DATE: 14-JAN-94
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/093,202
FILING DATE: 15-JUL-93

```

; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/030,644
; FILING DATE: 12-MAR-93
; ATTORNEY/AGENT INFORMATION:
; NAME: Borun, Michael F.
; REGISTRATION NUMBER: 25,447
; REFERENCE/DOCKET NUMBER: 27129/10040
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 197:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: /note= "XMP.366"
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: 1
; OTHER INFORMATION: /label= Acetylated
; OTHER INFORMATION: /note= "Position 1 is acetylated"
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: 1-10
; OTHER INFORMATION: /label= D-Amino Acids
; OTHER INFORMATION: /note= "Positions 1-10 are D-amino acids"
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: C-Terminus
; OTHER INFORMATION: /label= Amidation
; OTHER INFORMATION: /note= "The C-terminus is Amidated"
;
; PCT-US95-09262-197
;
; Query Match 100.0%; Score 57; DB 5; Length 10;
; Best Local Similarity 100.0%; Pred. No. 0.0015;
; Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; QY 1 KWL1QLFHKK 10
; DB 1 KWL1QLFHKK 10
;
; RESULT 61
; PCT-US95-09262-204
; Sequence 204, Application PC/TUS9509262
; GENERAL INFORMATION:
; APPLICANT: Anti-Fungal Peptides
; TITLE OF INVENTION: Anti-Fungal Peptides
; NUMBER OF SEQUENCES: 206
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/09262
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/372,105
; FILING DATE: 13-JAN-95
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/306,473

```

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; FILING DATE: 15-SEP-94
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/273,540
; FILING DATE: 11-JUL-94
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/209,762
; FILING DATE: 11-MAR-94
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/183,222
; FILING DATE: 14-JAN-94
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/093,202
; FILING DATE: 15-JUL-93
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/030,644
; FILING DATE: 12-MAR-93
; ATTORNEY/AGENT INFORMATION:
; NAME: Borun, Michael F.
; REGISTRATION NUMBER: 25,447
; REFERENCE/DOCKET NUMBER: 27129/10040
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 204:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: "XMP.373"
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: 1
; OTHER INFORMATION: /label= Acetylated
; OTHER INFORMATION: /note= "Position 1 is acetylated"
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: C-Terminus
; OTHER INFORMATION: /label= Amidation
; OTHER INFORMATION: /note= "The C-terminus is Amidated"
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; PCT-US95-09262-204
;
; Query Match 100.0%; Score 57; DB 5; Length 10;
; Best Local Similarity 100.0%; Pred. No. 0.0015;
; Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; QY 1 KWL1QLFHKK 10
; DB 1 KWL1QLFHKK 10
;
; RESULT 62
; US-08-621-803-155
; Sequence 155, Application US/08621803
; Patent No. 5851802
; GENERAL INFORMATION:
; APPLICANT: Better, Marc D.
; TITLE OF INVENTION: Methods for Recombinant Microbial Production of
; TITLE OF INVENTION: Fusion Proteins and BPI-Derived Peptides
; NUMBER OF SEQUENCES: 265
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

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; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/621.803
; FILING DATE: 22-MAR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Borun, Michael F.
; REGISTRATION NUMBER: 25,447
; REFERENCE/DOCKET NUMBER: 27129/33199
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 155:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: "XMP.289"
;
; NAME/KEY: Modified-site
; LOCATION: C-Terminus
; OTHER INFORMATION: /label= Amidation
; OTHER INFORMATION: /note= "The C-Terminus is Amidated."
; US-08-621-803-155
;
; Query Match 100.0%; Score 57; DB 2; Length 11;
; Best Local Similarity 100.0%; Pred. No. 0.0016;
; Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; Qy 1 KWLQLFHKK 10
; Db 2 KWLQLFHKK 11
;
; RESULT 63
; US-08-621-803-208
; Sequence 208, Application US/08621803
; Patent No. 5851802
; GENERAL INFORMATION:
; APPLICANT: Better, Marc D.
; TITLE OF INVENTION: Methods for Recombinant Microbial Production of
; Fusion Proteins and API-Derived Peptides
; NUMBER OF SEQUENCES: 265
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstle, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/621.803
; FILING DATE: 22-MAR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Borun, Michael F.
; REGISTRATION NUMBER: 25,447
; REFERENCE/DOCKET NUMBER: 27129/33199
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 208:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 amino acids
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; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: pept.de
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: "XMP.352"
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: C-Terminus
; OTHER INFORMATION: /label= Amidation
; OTHER INFORMATION: /note= "The C-Terminus is Amidated."
; US-08-621-803-208
;
; Query Match 100.0%; Score 57; DB 2; Length 11;
; Best Local Similarity 100.0%; Pred. No. 0.0016;
; Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; Qy 1 KWLQLFHKK 10
; Db 2 KWLQLFHKK 11
;
; RESULT 64
; US-08-621-259A-122
; Sequence 122, Application US/08621259A
; Patent No. 5858974
; GENERAL INFORMATION:
; APPLICANT: Little II, Roger G
; APPLICANT: Lim, Edward
; APPLICANT: Padem, Mitchell B.
; TITLE OF INVENTION: Anti-Fungal Peptides
; NUMBER OF SEQUENCES: 252
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McAndrews, Held & Malloy, Ltd.
; STREET: 500 West Madison Street
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60661
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/621.259A
; FILING DATE: 21-MAR-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/504,841
; FILING DATE: 20-JUL-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: McNicholas, Janet M.
; REGISTRATION NUMBER: 32,918
; REFERENCE/DOCKET NUMBER: 11021US02
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/707-8899
; TELEFAX: 312/707-9155
; TELEX:
; INFORMATION FOR SEQ ID NO: 122:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: "XMP.289"
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: C-Terminus
; OTHER INFORMATION: /label= Amidation
; OTHER INFORMATION: /note= "The C-Terminus is Amidated."
; US-08-621-259A-122
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Query Match 100.0%; Score 57; DB 2; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.0016;
Matches 10; Conservative 0; Mismatches 0; Indels 0;

QY 1 KWLQLFHKK 10
| | | | | | | |
DB 2 KWLQLFHKK 11

RESULT 65

US-08-621-259A-183
Sequence 183, Application JS/08621259A
Patent No. 5858974
GENERAL INFORMATION:
APPLICANT: Little II, Roger G
APPLICANT: Lim, Edward
APPLICANT: Fadem, Mitchell H.
TITLE OF INVENTION: Anti-Fungal Peptides
NUMBER OF SEQUENCES: 252
CORRESPONDENCE ADDRESS:
ADDRESSEE: McAndrews, Reid & Malloy, Ltd.
STREET: 500 West Madison Street
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60661

COMPUTER READABLE FORM:
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version: #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/621,259A
FILING DATE: 21-MAR-1996

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/504,841
FILING DATE: 20-JUL-1995
ATTORNEY/AGENT INFORMATION:
NAME: McNicholas, Janet M.
REGISTRATION NUMBER: 32,918
REFERENCE/DOCKET NUMBER: 110210502
TELEPHONE: 312/707-8889
TELEFAX: 312/707-9155
TELEX:

SEQUENCE CHARACTERISTICS:
LENGTH: 11 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: misc_feature
OTHER INFORMATION: "XMP.352"
FEATURE:
NAME/KEY: Modified-site
LOCATION: C-Terminus
OTHER INFORMATION: /label= Amidation
OTHER INFORMATION: /note= "The C-Terminus is Amidated."

US-08-621-259A-183

Query Match 100.0%; Score 57; DB 2; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.0016;
Matches 10; Conservative 0; Mismatches 0; Indels 0;

QY 1 KWLQLFHKK 10
| | | | | | | |
DB 2 KWLQLFHKK 11

RESULT 66

US-09-217-352-155

Sequence 155, Application US/09217352

Patent No. 6274344

GENERAL INFORMATION:

APPLICANT: Better, Marc D.

TITLE OF INVENTION: Methods for Recombinant Microbial Production of Fusion Proteins and BPI-Derived Peptides
NUMBER OF SEQUENCES: 265

CORRESPONDENCE ADDRESS:

ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago

STATE: Illinois

COUNTRY: United States of America

ZIP: 60606-6402

COMPUTER READABLE FORM:

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/217,352

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/621,803

FILING DATE: 22-MAR-1996

ATTORNEY/AGENT INFORMATION:

NAME: Borun, Michael F.

REGISTRATION NUMBER: 25,447

REFERENCE/DOCKET NUMBER: 27129/33199

TELEPHONE: 312/474-6300

TELEFAX: 312/474-0448

TELEX: 25-3856

INFORMATION FOR SEQ ID NO: 155:

SEQUENCE CHARACTERISTICS:

LENGTH: 11 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: peptide

FEATURE:

NAME/KEY: misc_feature

OTHER INFORMATION: "XMP.289"

FEATURE:

NAME/KEY: Modified-site

LOCATION: C-Terminus

OTHER INFORMATION: /label= Amidation

OTHER INFORMATION: /note= "The C-Terminus is Amidated."

US-09-217-352-155

Query Match 100.0%; Score 57; DB 3; Length 11;

Best Local Similarity 100.0%; Pred. No. 0.0016;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10

| | | | | | | |

DB 2 KWLQLFHKK 11

RESULT 67

US-09-217-352-208

Sequence 208, Application US/09217352

Patent No. 6274344

GENERAL INFORMATION:

APPLICANT: Better, Marc D.

TITLE OF INVENTION: Methods for Recombinant Microbial Production of Fusion Proteins and BPI-Derived Peptides
NUMBER OF SEQUENCES: 265

CORRESPONDENCE ADDRESS:

ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago

STATE: Illinois

COUNTRY: United States of America

ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/217.352
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/621.803
FILING DATE: 22-MAR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Borun, Michael F.
REGISTRATION NUMBER: 25,447
REFERENCE/DOCKET NUMBER: 27129/33199
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312/474-6300
TELEFAX: 312/474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 208:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 amino acids
TYPE: amino acid
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: misc.feature
OTHER INFORMATION: "XMP.352"
FEATURE:
NAME/KEY: Modified-site
LOCATION: C-Terminus
OTHER INFORMATION: /label= Amidation
OTHER INFORMATION: /note= "The C-Terminus is Amidated."
US-09-217-352-208

Query Match: 100.0%; Score 57; DB 3; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.0010;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
Db 2 KWLQLFHKK 11
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RESULT 68
PCT-US95-09262-122
Sequence 122, Application PC/TUS9509262
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: Anti-Fungal Peptides
NUMBER OF SEQUENCES: 206
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60606-6402
COMPUTER READABLE FORM:
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/09262
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/372.105
FILING DATE: 13-JAN-95
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/306.473
FILING DATE: 15-SEP-94

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/273.540
FILING DATE: 11-JUL-94
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/209.762
FILING DATE: 11-MAR-94
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/183.222
FILING DATE: 14-JAN-94
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/093.202
FILING DATE: 15-JUL-93
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/030.644
FILING DATE: 12-MAR-93
ATTORNEY/AGENT INFORMATION:
NAME: Borun, Michael F.
REGISTRATION NUMBER: 25,447
REFERENCE/DOCKET NUMBER: 27129/10040
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312/474-6300
TELEFAX: 312/474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 122:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 amino acids
TYPE: amino acid
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: misc.feature
OTHER INFORMATION: "XMP.289"
FEATURE:
NAME/KEY: Modified-site
LOCATION: C-Terminus
OTHER INFORMATION: /label= Amidation
OTHER INFORMATION: /note= "The C-Terminus is Amidated"
PCT-US95-09262-122

Query Match: 100.0%; Score 57; DB 5; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.0016;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
Db 2 KWLQLFHKK 11
|||||

RESULT 69
PCT-US95-09262-183
Sequence 183, Application PC/TUS9509262
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: Anti-Fungal Peptides
NUMBER OF SEQUENCES: 206
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60606-6402
COMPUTER READABLE FORM:
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/09262
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/372.105
FILING DATE: 13-JAN-95


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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/306,473
; FILING DATE: 15-SEP-94
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/273,540
; FILING DATE: 11-JUL-94
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/209,762
; FILING DATE: 11-MAR-94
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/183,222
; FILING DATE: 14-JAN-94
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/093,202
; FILING DATE: 15-JUL-93
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/030,644
; FILING DATE: 12-MAR-93
; ATTORNEY/AGENT INFORMATION:
; NAME: Borun, Michael F.
; REGISTRATION NUMBER: 25,447
; REFERENCE/DOCKET NUMBER: 27129/13340
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 183:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: misc-feature
; OTHER INFORMATION: "XMP.352"
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: C-Terminus
; OTHER INFORMATION: /label= Amidation
; OTHER INFORMATION: /note= "The C-Terminus is Amidated"
PCT-US95-09262-183

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Query Match 100.0%; Score 57; DB 5; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.0016;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Caps 0;

QY 1 KWLQLFHKK 10
Db 2 KWLQLFHKK 11

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RESULT 70
US-08-621-803-152
; Sequence 152, Application US/08621803
; Patent No. 5851802
; GENERAL INFORMATION:
; APPLICANT: Better, Marc D.
; TITLE OF INVENTION: Methods for Recombinant Microbial Production of
; TITLE OF INVENTION: Fusion Proteins and HPI-Derived Peptides
; NUMBER OF SEQUENCES: 265
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:

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; APPLICATION NUMBER: US/08/621,803
; FILING DATE: 22-MAR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Borun, Michael F.
; REGISTRATION NUMBER: 25,447
; REFERENCE/DOCKET NUMBER: 27129/33199
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 152:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: misc-feature
; OTHER INFORMATION: "XMP.286"
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: C-Terminus
; OTHER INFORMATION: /label= Amidation
; OTHER INFORMATION: /note= "The C-Terminus is Amidated."
US-06-521-803-152

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Query Match 100.0%; Score 57; DB 2; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.0018;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Caps 0;

QY 1 KWLQLFHKK 10
Db 3 KWLQLFHKK 12

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RESULT 71
US-06-521-259A-119
; Sequence 119, Application US/08621259A
; Patent No. 5858974
; GENERAL INFORMATION:
; APPLICANT: Little II, Roger G
; APPLICANT: Lim, Edward
; APPLICANT: Fadem, Mitchell B.
; TITLE OF INVENTION: Anti-Fungal Peptides
; NUMBER OF SEQUENCES: 252
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McAndrews, Heid & Malloy, Ltd.
; STREET: 500 West Madison Street
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60661
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/621,259A
; FILING DATE: 21-MAR-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/504,841
; FILING DATE: 20-JUL-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: McNicholas, Janet M.
; REGISTRATION NUMBER: 32,918
; REFERENCE/DOCKET NUMBER: 11021US02
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/707-8889
; TELEFAX: 312/707-9155
; TELEX:
; INFORMATION FOR SEQ ID NO: 119:
; SEQUENCE CHARACTERISTICS:

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LENGTH: 12 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: misc:feature
OTHER INFORMATION: "XMP.286"
FEATURE:
NAME/KEY: Modified-site
LOCATION: C-Terminus
OTHER INFORMATION: /label= Amidation
OTHER INFORMATION: /note= "The C-Terminus is Amidated."
US-08-621-259A-119

Query Match 100.0%; Score 57; DB 2; Length 12:
Best Local Similarity 100.0%; Pred. No. 0.0018;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWL1QLFHKK 10
Db 3 KWL1QLFHKK 12

RESULT 72

US-09-217-352-152
Sequence 152, Application US/09217352
Patent No. 6274344
GENERAL INFORMATION:
APPLICANT: Better, Marc D.
TITLE OF INVENTION: Methods for Recombinant Microbial Production of Fusion Proteins and BP-Derived Peptides
NUMBER OF SEQUENCES: 265
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/217,352
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/621,803
FILING DATE: 22-MAR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Borun, Michael F.
REGISTRATION NUMBER: 25,447
REFERENCE/DOCKET NUMBER: 27129/11199
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312/474-6300
TELEFAX: 312/474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 152:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: misc:feature
OTHER INFORMATION: "XMP.286"
FEATURE:
NAME/KEY: Modified-site
LOCATION: C-Terminus
OTHER INFORMATION: /label= Amidation
OTHER INFORMATION: /note= "The C-Terminus is Amidated."
US-09-217-352-152

Query Match 100.0%; Score 57; DB 3; Length 12:
Best Local Similarity 100.0%; Pred. No. 0.0018;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWL1QLFHKK 10
Db 3 KWL1QLFHKK 12

RESULT 73

PC-US95-09262-119
Sequence 119, Application PC/US9509262
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: Anti-Fungal Peptides
NUMBER OF SEQUENCES: 206
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/09262
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/372,105
FILING DATE: 13-JAN-95
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/306,473
FILING DATE: 15-SEP-94
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/273,540
FILING DATE: 11-JUL-94
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/209,762
FILING DATE: 11-MAR-94
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/183,222
FILING DATE: 14-JAN-94
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/093,202
FILING DATE: 15-JUL-93
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/030,644
FILING DATE: 12-MAR-93
ATTORNEY/AGENT INFORMATION:
NAME: Borun, Michael F.
REGISTRATION NUMBER: 25,447
REFERENCE/DOCKET NUMBER: 27129/10040
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312/474-6300
TELEFAX: 312/474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 119:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: misc:feature
OTHER INFORMATION: "XMP.286"
FEATURE:
NAME/KEY: Modified-site
LOCATION: C-Terminus

; OTHER INFORMATION: /label= Amidation
; OTHER INFORMATION: /note= "The C-Terminus is Amidated"
PCT-US95-09262-119

Query Match 100.0%; Score 57; DB 5; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.0019;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KWLQLFHKK 10
Db 3 KWLQLFHKK 12

RESULT 74

US-08-621-803-150
; Sequence 150, Application US/08621803
; Patent No. 5851802
; GENERAL INFORMATION:
; APPLICANT: Better, Marc D.
; TITLE OF INVENTION: Methods for Recombinant Microbial Production of
; TITLE OF INVENTION: Fusion Proteins and BPI-Derived Peptides
; NUMBER OF SEQUENCES: 265
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/621,803
; FILING DATE: 22-MAR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Borun, Michael F.
; REGISTRATION NUMBER: 25,447
; REFERENCE/DOCKET NUMBER: 27129/33199
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 150:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 13 amino acids
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: "XMP.284"
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: C-Terminus
; OTHER INFORMATION: /label= Amidation
; OTHER INFORMATION: /note= "The C-Terminus is Amidated."
US-08-621-803-150

Query Match 100.0%; Score 57; DB 2; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.0019;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KWLQLFHKK 10
Db 4 KWLQLFHKK 13

RESULT 75

US-08-621-259A-117
; Sequence 117, Application US/08621259A

; Patent No. 5858974
; GENERAL INFORMATION:
; APPLICANT: Little II, Roger G
; APPLICANT: Lim, Edward
; APPLICANT: Fadem, Mitchell B.
; TITLE OF INVENTION: Anti-Fungal Peptides
; NUMBER OF SEQUENCES: 252
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McAndrews, Held & Malloy, Ltd.
; STREET: 500 West Madison Street
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60661
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/621,259A
; FILING DATE: 21-MAR-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 38/504,841
; FILING DATE: 20-JUL-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: McNicholas, Janet M.
; REGISTRATION NUMBER: 32,918
; REFERENCE/DOCKET NUMBER: 11021US02
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/707-8889
; TELEFAX: 312/707-9155
; TELEX:
; INFORMATION FOR SEQ ID NO: 117:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 13 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: "XMP.284"
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: C-Terminus
; OTHER INFORMATION: /label= Amidation
; OTHER INFORMATION: /note= "The C-Terminus is Amidated."
US-08-621-259A-117

Query Match 100.0%; Score 57; DB 2; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.0019;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KWLQLFHKK 10
Db 4 KWLQLFHKK 13

RESULT 76

US-09-217-352-150
; Sequence 150, Application US/09217352
; Patent No. 6274344
; GENERAL INFORMATION:
; APPLICANT: Better, Marc D.
; TITLE OF INVENTION: Methods for Recombinant Microbial Production of
; TITLE OF INVENTION: Fusion Proteins and BPI-Derived Peptides
; NUMBER OF SEQUENCES: 265
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America

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; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/217,352
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/621,803
; FILING DATE: 22-MAR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Borun, Michael F.
; REGISTRATION NUMBER: 25,447
; REFERENCE/DOCKET NUMBER: 27129/33199
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 150:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 13 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: "XMP.284"
; NAME/KEY: Modified-site
; LOCATION: C-Terminus
; OTHER INFORMATION: /label= Amidation
; OTHER INFORMATION: /note= "The C-Terminus is Amidated."
;
US-09-217-352-150
;
Query Match 100.0%; Score 57; DB 3; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.0019;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
DB 4 KWLQLFHKK 13
;
RESULT 77
PCT-US95-09262-117
; Sequence 117, Application PCT/US9509262
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: Anti-Fungal Peptides
; NUMBER OF SEQUENCES: 206
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/09262
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/372,105
; FILING DATE: 13-JAN-95
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/306,473
; FILING DATE: 15-SEP-94

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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/273,540
; FILING DATE: 11-JUL-94
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/209,762
; FILING DATE: 11-MAR-94
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/183,222
; FILING DATE: 14-JAN-94
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/093,202
; FILING DATE: 15-JUL-93
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/030,644
; FILING DATE: 12-MAR-93
; ATTORNEY/AGENT INFORMATION:
; NAME: Borun, Michael F.
; REGISTRATION NUMBER: 25,447
; REFERENCE/DOCKET NUMBER: 27129/10040
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 117:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 13 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: "XMP.284"
; NAME/KEY: Modified-site
; LOCATION: C-Terminus
; OTHER INFORMATION: /label= Amidation
; OTHER INFORMATION: /note= "The C-Terminus is Amidated"
;
PCT-US95-09262-117
;
Query Match 100.0%; Score 57; DB 5; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.0019;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
DB 4 KWLQLFHKK 13
;
RESULT 78
US-08-311-611A-92
; Sequence 92, Application US/08311611A
; Patent No. 523288
; GENERAL INFORMATION:
; APPLICANT: Cohen, Jonathan
; APPLICANT: Kung, Ada H.C.
; APPLICANT: Lambert, Jr., Lewis H.
; TITLE OF INVENTION: Method for Treating Gram-Negative Bacterial
; TITLE OF INVENTION: Infection by Administration of
; TITLE OF INVENTION: Bactericidal/permeability-Increasing
; TITLE OF INVENTION:
; NUMBER OF SEQUENCES: 227
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25

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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/311-611A
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/273,401
; FILING DATE: 11-JUL-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/125,651
; FILING DATE: 22-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Sharp, Jeffrey S.
; REGISTRATION NUMBER: 31,674
; REFERENCE/DOCKET NUMBER: 32251
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 92:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 14 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: "BPL 97"
;
US-08-311-611A-92

Query Match 100.0%: Score 57: DB 1: Length 14:
Best Local Similarity 100.0%: Pred. No. 0.002:
Matches 10: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

QY 1 KWLQLFPHKK 10
DB 5 KWLQLFPHKK 14

RESULT 79
US-08-372-783-92
; Sequence 92, Application US/08372783
; Patent No. 5578572
; GENERAL INFORMATION:
; APPLICANT: Horwitz, Arnold H.
; APPLICANT: Lambert, Lewis H.
; APPLICANT: Little, Roger G.
; TITLE OF INVENTION: Anti-Gram-Positive Bacterial Methods and
; TITLE OF INVENTION: Materials
; NUMBER OF SEQUENCES: 237
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/472,783
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/273,540
; FILING DATE: 11-JUL-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/209,762
; FILING DATE: 11-MAR-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/183,222
; FILING DATE: 14-JAN-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Sharp, Jeffrey S.
; REGISTRATION NUMBER: 31,674
; REFERENCE/DOCKET NUMBER: 32251
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 92:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 14 amino acids
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; NAME: Rin-Laures, Li-Hsien
; REGISTRATION NUMBER: 33,547
; REFERENCE/DOCKET NUMBER: 27129/32415
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 92:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 14 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: "XMP.97"
;
US-08-372-783-92

Query Match 100.0%: Score 57: DB 1: Length 14:
Best Local Similarity 100.0%: Pred. No. 0.002:
Matches 10: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

QY 1 KWLQLFPHKK 10
DB 5 KWLQLFPHKK 14

RESULT 80
US-08-372-105-92
; Sequence 92, Application US/08372105
; Patent No. 5627153
; GENERAL INFORMATION:
; APPLICANT: Little, Roger G.
; APPLICANT: Lim, Edward
; APPLICANT: Lambert, Lewis H.
; APPLICANT: Scannon, Patrick J.
; TITLE OF INVENTION: Anti-Fungal Materials and Methods
; NUMBER OF SEQUENCES: 227
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/372,105
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/273,540
; FILING DATE: 11-JUL-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/209,762
; FILING DATE: 11-MAR-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/183,222
; FILING DATE: 14-JAN-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Rin-Laures, Li-Hsien
; REGISTRATION NUMBER: 33,547
; REFERENCE/DOCKET NUMBER: 27129/32415
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 92:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 14 amino acids
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; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: "XMP.97"
US-08-372-105-92

Query Match      100.0%; Score 57; DB 1; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.002;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KWLQLFHKK 10
DB      5 KWLQLFHKK 14
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RESULT 81
US-08-306-473A-92
; Sequence 92, Application US/08306473A
; Patent No. 5652332
; GENERAL INFORMATION:
; APPLICANT: Little, Roger G.
; TITLE OF INVENTION: Biologically Active Peptides from
; TITLE OF INVENTION: Functional Domains of Bactericidal/
; TITLE OF INVENTION: Permeability-Increasing Protein and
; TITLE OF INVENTION: Uses Thereof
; NUMBER OF SEQUENCES: 226
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Allegretti & Witcoff, Ltd.
; STREET: Suite 3000, 10 S. Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/306.473A
; FILING DATE: 11-JAN-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/209,762
; FILING DATE: 11-MAR-1994
; APPLICATION NUMBER: 08/183,222
; FILING DATE: 14-JAN-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: McDonnell, John J.
; REGISTRATION NUMBER: 26,949
; REFERENCE/DOCKET NUMBER: 93,1133-
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-715-1000
; TELEFAX: 312-715-1234
; INFORMATION FOR SEQ ID NO: 92:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 14 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: "BPI.97"
US-08-306-473A-92

Query Match      100.0%; Score 57; DB 1; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.002;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KWLQLFHKK 10
DB      5 KWLQLFHKK 14
        |||||

RESULT 82
US-08-209-762-92
; Sequence 92, Application US/08209762
; Patent No. 5733872
; GENERAL INFORMATION:
; APPLICANT: Little, Roger G.
; TITLE OF INVENTION: Biologically Active Peptides from
; TITLE OF INVENTION: Functional Domains of Bactericidal/
; TITLE OF INVENTION: Protein and Uses Thereof
; NUMBER OF SEQUENCES: 98
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Allegretti & Witcoff, Ltd.
; STREET: 10 South Wacker Drive, Suite 3000
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/209,762
; FILING DATE: 11-JAN-1994
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5733872nan, Kevin E
; REGISTRATION NUMBER: 35,303
; REFERENCE/DOCKET NUMBER: 93,1133
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-715-1000
; TELEFAX: 312-715-1234
; TELEX: 910-221-5317
; INFORMATION FOR SEQ ID NO: 92:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 14 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: "BPI.97"
US-08-209-762-92

Query Match      100.0%; Score 57; DB 1; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.002;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KWLQLFHKK 10
DB      5 KWLQLFHKK 14
        |||||

RESULT 83
US-08-473-344-92
; Sequence 92, Application US/08473344
; Patent No. 5763567
; GENERAL INFORMATION:
; APPLICANT: Little, Roger G.
; TITLE OF INVENTION: Biologically Active Peptides from
; TITLE OF INVENTION: Functional Domains of Bactericidal/
; TITLE OF INVENTION: Protein and Uses Thereof
; NUMBER OF SEQUENCES: 98
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Banner & Allegretti, Ltd.
; STREET: 10 South Wacker Drive, Suite 3000
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
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/ ZIP: 60606
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/473,344
/ FILING DATE: 7-JUN-1995
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/306,473
/ FILING DATE: 15-SEP-1995
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/203,762
/ FILING DATE: 11-MAR-1995
/ ATTORNEY/AGENT INFORMATION:
/ NAME: McDonnell, John J.
/ REGISTRATION NUMBER: 25,945
/ REFERENCE/DOCKET NUMBER: 93,1133-J
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 312-715-1000
/ TELEFAX: 312-715-1234
/ TELEX: 910-221-5317
/ INFORMATION FOR SEQ ID NO: 92:
/ BEST LOCAL SIMILARITY 100.0%; Score 57; DB 1; Length 14;
/ Mismatches 0; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 14 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: peptide
/ FEATURE:
/ NAME/KEY: misc:feature
/ OTHER INFORMATION: "BPI.97"
/ US-08-473-344-92

Query Match 100.0%; Score 57; DB 1; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.002;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 KWLQLFHKK 10
Db 5 KWLQLFHKK 14

RESULT 84
US-08-621-803-86
/ Sequence 86, Application US/08621803
/ Patent No. 5851802
/ GENERAL INFORMATION:
/ APPLICANT: Better, Marc D.
/ TITLE OF INVENTION: Methods for Recombinant Microbial Production of
/ FUSION PROTEINS AND BPI-DERIVED PEPTIDES
/ NUMBER OF SEQUENCES: 265
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
/ STREET: 6300 Sears Tower, 233 South Wacker Drive
/ CITY: Chicago
/ STATE: Illinois
/ COUNTRY: United States of America
/ ZIP: 60605-6402
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/621,803
/ FILING DATE: 22-MAR-1996
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Borun, Michael F.
/ REGISTRATION NUMBER: 25,447
/ REFERENCE/DOCKET NUMBER: 27129/33194
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 312/474-6300

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/ TELEFAX: 312/474-0448
/ TELEX: 25-3856
/ INFORMATION FOR SEQ ID NO: 86:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 14 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: peptide
/ FEATURE:
/ NAME/KEY: misc:feature
/ OTHER INFORMATION: "XMP.97"
/ FEATURE:
/ NAME/KEY: Modified-site
/ LOCATION: C-terminus
/ OTHER INFORMATION: /label= Amidated;
/ OTHER INFORMATION: /note= "The C-Terminus is Amidated."
/ US-08-621-603-86

Query Match 100.0%; Score 57; DB 2; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.002;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 KWLQLFHKK 10
Db 5 KWLQLFHKK 14

RESULT 85
US-08-485-445A-92
/ Sequence 92, Application US/08485445A
/ Patent No. 5856438
/ GENERAL INFORMATION:
/ APPLICANT: Little, Roger G.
/ TITLE OF INVENTION: Biologically Active Peptides from
/ FUNCTIONAL DOMAINS OF BACTERICIDAL/
/ PERMEABILITY-INCREASING PROTEIN AND
/ TITLE OF INVENTION: Uses Thereof
/ NUMBER OF SEQUENCES: 226
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: McAndrews, Heid & Malloy, Ltd.
/ STREET: Suite 3400, 500 West Madison Street
/ CITY: Chicago
/ STATE: Illinois
/ COUNTRY: USA
/ ZIP: 60661
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/485,445A
/ FILING DATE:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/209,762
/ FILING DATE: 11-MAR-1994
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/183,222
/ FILING DATE: 14-JAN-1994
/ ATTORNEY/AGENT INFORMATION:
/ NAME: McNicholas, Janet M.
/ REGISTRATION NUMBER: 32,918
/ REFERENCE/DOCKET NUMBER: 11018US08/100-224.P4.C1B
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 312-707-8889
/ TELEFAX: 312-707-9155
/ INFORMATION FOR SEQ ID NO: 92:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 14 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: peptide
/ FEATURE:

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; NAME/KEY: misc_feature
; OTHER INFORMATION: "BPI.97"
US-08-485-445A-92

Query Match      100.0%  Score 57; DB 2; Length 14;
Best Local Similarity 100.0%  Pred. No. 0.002;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KWLQLFHHK 10
      |||||
DB      5 KWLQLFHHK 14

RESULT 86
US-08-621-259A-31
; Sequence 31, Application US/08621259A
; Patent No. 5858974
; GENERAL INFORMATION:
; APPLICANT: Little II, Roger G
; APPLICANT: Eadem, Mitchell B
; TITLE OF INVENTION: Anti-Fungal Peptides
; NUMBER OF SEQUENCES: 252
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McAndrews, Held & Malloy, Ltd.
; STREET: 500 West Madison Street
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60661
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/621,259A
; FILING DATE: 21-MAR-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/504,841
; FILING DATE: 20-JUL-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: McNicholas, Janet M.
; REGISTRATION NUMBER: 32,918
; REFERENCE/DOCKET NUMBER: 110210US02
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/707-8889
; TELEFAX: 312/707-9155
; TELEX:
; INFORMATION FOR SEQ ID NO: 31:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 14 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: "XMP.97"
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: C-Terminus
; OTHER INFORMATION: /label="Amidation"
; OTHER INFORMATION: /note="The C-Terminus is Amidated."
US-08-621-259A-31

Query Match      100.0%  Score 57; DB 2; Length 14;
Best Local Similarity 100.0%  Pred. No. 0.002;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KWLQLFHHK 10
      |||||
DB      5 KWLQLFHHK 14

RESULT 87
US-09-119-263-92
; Sequence 92, Application US/09119263
; Patent No. 6054431
; GENERAL INFORMATION:
; APPLICANT: Horwitz, Arnold H.
; APPLICANT: Lambert, Lewis H.
; APPLICANT: Little, Roger G.
; TITLE OF INVENTION: Anti-Gram-Positive Bacterial Methods and
; TITLE OF INVENTION: Materials
; NUMBER OF SEQUENCES: 237
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/119,263
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/758,116
; FILING DATE:
; APPLICATION NUMBER: 08/372,783
; FILING DATE:
; APPLICATION NUMBER: 08/273,540
; FILING DATE: 11-JUL-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/209,762
; FILING DATE: 11-MAR-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/183,222
; FILING DATE: 14-JAN-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Rin-Laure, Li-Hsien
; REGISTRATION NUMBER: 33,547
; REFERENCE/DOCKET NUMBER: 27129/52415
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-5300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 92:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 14 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: "XMP.97"
; OTHER INFORMATION:
US-09-119-263-92

Query Match      100.0%  Score 57; DB 3; Length 14;
Best Local Similarity 100.0%  Pred. No. 0.002;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KWLQLFHHK 10
      |||||
DB      5 KWLQLFHHK 14

RESULT 88
US-08-657-162-92
; Sequence 92, Application US/08657162
; Patent No. 6140306
; GENERAL INFORMATION:
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; APPLICANT: Cohen, Jonathan
; APPLICANT: Kung, Ada H.C.
; APPLICANT: Lambert, J., Lewis H.
; TITLE OF INVENTION: Method for Treating Gram-Negative Bacterial
; TITLE OF INVENTION: Infection by Administration of
; TITLE OF INVENTION: Bactericidal/Permeability-Increasing
; TITLE OF INVENTION:
; NUMBER OF SEQUENCES: 227
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Horne
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/657.162
; FILING DATE: 03-JUN-1996
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/311.611
; FILING DATE:
; FILING DATE: 11-JUL-1994
; APPLICATION NUMBER: 08/273.401
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/125.651
; FILING DATE: 22-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Sharp, Jeffrey S.
; REGISTRATION NUMBER: 31,879
; REFERENCE/DOCKET NUMBER: 32251
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 92:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 14 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: "BPI.97"
; US-08-657-162-92

Query Match 100.0%; Score 57; DB 3; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.002;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
DB 5 KWLQLFHKK 14

RESULT 89
US-09-224-480-92
; Sequence 92, Application US/09224480
; Patent No. 6153730
; GENERAL INFORMATION:
; APPLICANT: Little, Roger G.
; TITLE OF INVENTION: Biologically Active Peptides from
; TITLE OF INVENTION: Functional Domains of Bactericidal/
; TITLE OF INVENTION: Permeability-Increasing Protein and
; TITLE OF INVENTION: Uses Thereof
; NUMBER OF SEQUENCES: 226
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McAndrews, Held & Malloy, Ltd.

```

```

; STREET: Suite 3400, 500 West Madison Street
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60661
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/224.480
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/485.445
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/183.222
; FILING DATE: 14-JAN-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: McNicholas, Janet M.
; REGISTRATION NUMBER: 32,918
; REFERENCE/DOCKET NUMBER: 11018US08/100-224.P4.C1B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-707-8889
; TELEFAX: 312-707-9155
; INFORMATION FOR SEQ ID NO: 92:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 14 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: "BPI.97"
; US-09-224-480-92

Query Match 100.0%; Score 57; DB 3; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.002;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
DB 5 KWLQLFHKK 14

RESULT 90
US-09-093-539-92
; Sequence 92, Application US/09093539
; Patent No. 6228834
; GENERAL INFORMATION:
; APPLICANT: Little, Roger G.
; TITLE OF INVENTION: Biologically Active Peptides from
; TITLE OF INVENTION: Functional Domains of Bactericidal/Permeability-Increasing
; TITLE OF INVENTION: Protein and Uses Thereof
; NUMBER OF SEQUENCES: 98
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Banner & Allegretti, Ltd.
; STREET: 10 South Wacker Drive, Suite 3000
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/093.539
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/473.344

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; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/506,475
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/209,762
; FILING DATE: 11-MAR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: McDonnell, John J.
; REGISTRATION NUMBER: 26,949
; REFERENCE/DOCKET NUMBER: 93,1133-J
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-715-1000
; TELEFAX: 312-715-1234
; TELEX: 910-221-5317
; INFORMATION FOR SEQ ID NO: 92:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 14 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: "BPI.97"
; US-09-093-539-92

Query Match 100.0%; Score 57; DB 3; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.002;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
DB 5 KWLQLFHKK 14

RESULT 91
US-09-217-352-86
; Sequence 86, Application US/09217352
; Patent No. 5274344
; GENERAL INFORMATION:
; APPLICANT: Better, Marc J.
; TITLE OF INVENTION: Methods for Recombinant Microbial Production of
; TITLE OF INVENTION: Fusion Proteins and BPI-Derived Peptides
; NUMBER OF SEQUENCES: 265
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, C'Tocle, Gerstein, Murray & Rezin
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: US/09/217.352
; PRIOR APPLICATION DATA:
; FILING DATE:
; APPLICATION NUMBER: 08/521,803
; FILING DATE: 22-MAR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Boruo, Michael F.
; REGISTRATION NUMBER: 25,447
; REFERENCE/DOCKET NUMBER: 27129/33199
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 86:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 14 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: "BPI.97"
; SEQUENCE DESCRIPTION: SEQ ID NO: 92:

US-09-790-230-92
Query Match 100.0%; Score 57; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.002;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
DB 5 KWLQLFHKK 14

RESULT 92
US-09-790-230-92
; Sequence 92, Application US/09790230
; Patent No. 6495516
; GENERAL INFORMATION:
; APPLICANT: Little, Roger G
; TITLE OF INVENTION: Biologically Active Peptides from
; TITLE OF INVENTION: Functional Domains of Bactericidal/Permeability-Increasi
; Protein and Uses Thereof
; NUMBER OF SEQUENCES: 98
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Banner & Allegretti, Ltd.
; STREET: 10 South Wacker Drive, Suite 3000
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/790,230
; FILING DATE: 21-Feb-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/473,344
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: McDonnell, John J.
; REGISTRATION NUMBER: 26,949
; REFERENCE/DOCKET NUMBER: 93,1133-J
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-715-1000
; TELEFAX: 312-715-1234
; TELEX: 910-221-5317
; INFORMATION FOR SEQ ID NO: 92:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 14 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: "BPI.97"
; SEQUENCE DESCRIPTION: SEQ ID NO: 92:

US-09-790-230-92
Query Match 100.0%; Score 57; DB 4; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.002;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 KWLQLFHKK 10
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Db      5 KWLQLFHKK 14

RESULT 93
PCT-US94-02465-92
; Sequence 92, Application PC/TUS9402465
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: Biologically Active Peptides from
; TITLE OF INVENTION: Functional Domains of Bactericidal/Permeability-Increasing
; TITLE OF INVENTION: Protein and Uses Thereof
; NUMBER OF SEQUENCES: 98
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Allegretti & Witcoff, Ltd.
; STREET: 10 South Wacker Drive, Suite 3000
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US94/02465
; FILING DATE: 11-JAN-1994
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Noonan, Kevin E
; REGISTRATION NUMBER: 35,303
; REFERENCE/DOCKET NUMBER: 93,1133
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-715-1000
; TELEFAX: 312-715-1234
; TELEFAX: 910-221-5317
; INFORMATION FOR SEQ ID NO: 92:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 14 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; FEATURE:
; NAME/KEY: misc.feature
; OTHER INFORMATION: "BPI.97"
PCT-US94-02465-92

Query Match. 100.0%; Score 57; DB 5; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.002;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 KWLQLFHKK 10
      1111111111
Db      5 KWLQLFHKK 14

RESULT 94
PCT-US95-00498-92
; Sequence 92, Application PC/TUS9500498
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: Anti-Gram-Positive Bacterial Methods and
; TITLE OF INVENTION: Materials
; NUMBER OF SEQUENCES: 237
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America

```

```

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/00498
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/273,540
; FILING DATE: 11-JUL-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/209,762
; FILING DATE: 11-MAR-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/183,222
; FILING DATE: 14-JAN-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Rin-Laures, Li-Hsien
; REGISTRATION NUMBER: 33,547
; REFERENCE/DOCKET NUMBER: 27129/32415
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0446
; TELEFAX: 25-3856
; INFORMATION FOR SEQ ID NO: 92:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 14 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: misc.feature
; OTHER INFORMATION: "XMP.97"
PCT-US95-00498-92

Query Match. 100.0%; Score 57; DB 5; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.002;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 KWLQLFHKK 10
      1111111111
Db      5 KWLQLFHKK 14

RESULT 95
PCT-US95-00656-92
; Sequence 92, Application PC/TUS9500656
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: Anti-Fungal Materials and Methods
; NUMBER OF SEQUENCES: 227
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/00656
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/273,540
; FILING DATE: 11-JUL-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/209,762
; FILING DATE: 11-MAR-1994
; PRIOR APPLICATION DATA:

```

```

: APPLICATION NUMBER: 08/183,222
: FILING DATE: 14-JAN-1994
: ATTORNEY/AGENT INFORMATION:
: NAME: Rin-Laures, Li-Rsien
: REGISTRATION NUMBER: 33,547
: REFERENCE/DOCKET NUMBER: 27129/32415
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 312/474-6300
: TELEFAX: 312/474-0448
: TELEX: 25-3856
: INFORMATION FOR SEQ ID NO: 92:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 14 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: peptide
: FEATURE:
: NAME/KEY: misc_feature
: OTHER INFORMATION: "XMP.97"
PCT-US95-00656-92

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Query Match 100.0%; Score 57; DB 5; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.002; 0; Indels 0; Gaps 0;
Matches 10; Conservative 0; Mismatches 0;

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Qy 1 KWLQLFHKK 10
Db 5 KWLQLFHKK 14

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RESULT 96

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PCT-US95-09262-31
: Sequence 31, Application PC/TUS9509262
: GENERAL INFORMATION:
: APPLICANT:
: TITLE OF INVENTION: Anti-Fungal Peptides
: NUMBER OF SEQUENCES: 206
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
: STREET: 6300 Sears Tower, 233 South Wacker Drive
: CITY: Chicago
: STATE: Illinois
: COUNTRY: United States of America
: ZIP: 60606-6402
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: PCT/US95/09262
: FILING DATE:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/372,105
: FILING DATE: 13-JAN-95
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/306,473
: FILING DATE: 15-SEP-94
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/273,543
: FILING DATE: 11-JUL-94
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/209,762
: FILING DATE: 11-MAR-94
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/183,222
: FILING DATE: 14-JAN-94
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/093,202
: FILING DATE: 15-JUL-93
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/030,644
: FILING DATE: 12-MAR-93

```

```

: ATTORNEY/AGENT INFORMATION:
: NAME: Borun, Michael F.
: REGISTRATION NUMBER: 25,447
: REFERENCE/DOCKET NUMBER: 27129/10040
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 312/474-6300
: TELEFAX: 312/474-0448
: TELEX: 25-3856
: INFORMATION FOR SEQ ID NO: 31:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 14 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: peptide
: FEATURE:
: NAME/KEY: misc_feature
: OTHER INFORMATION: "XMP.97"
: NAME/KEY: Modified-site
: LOCATION: C-Terminus
: OTHER INFORMATION: /label= Amidation
: OTHER INFORMATION: /note= "The C-Terminus is Amidated"
PCT-US95-09262-31

```

```

Query Match 100.0%; Score 57; DB 5; Length 14;
Best Local Similarity 100.0%; Pred. No. 0.002;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy 1 KWLQLFHKK 10
Db 5 KWLQLFHKK 14

```

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Search completed: October 1, 2003, 09:53:31
Job time : 42 secs

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GenCore version: 5.1.1.6
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OM protein - protein search, using sw model

Run on: October 1, 2003, 09:41:18 : Search time 578 seconds
(without alignments)
2.737 Million coli updates/sec

Title: US-09-881-490-126
Perfect score: 57
Sequence: 1 KWLQLFHKK 10

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 587654 seqs, 159212981 residues

Total number of hits satisfying chosen parameters: 587654

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 65 summaries

Database : Published_Applications_AA.*

- 1: /cgn2_6/ptodata/1/pubaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubaa/US26_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubaa/PCT_US_PUBCOMB.pep.*
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- 8: /cgn2_6/ptodata/1/pubaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubaa/US10C_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/1/pubaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	57	100.0	10	9 US-09-765-527-159	Sequence 159, App
2	57	100.0	10	9 US-09-765-527-215	Sequence 215, App
3	57	100.0	10	9 US-09-881-490-126	Sequence 126, App
4	57	100.0	10	9 US-09-881-490-194	Sequence 194, App
5	57	100.0	10	9 US-09-881-490-195	Sequence 195, App
6	57	100.0	10	9 US-09-881-490-196	Sequence 196, App
7	57	100.0	10	9 US-09-881-490-197	Sequence 197, App
8	57	100.0	10	9 US-09-881-490-204	Sequence 204, App
9	57	100.0	10	14 US-10-006-557-11	Sequence 11, Appl
10	57	100.0	10	15 US-10-146-136-3	Sequence 3, Appl
11	57	100.0	10	15 US-10-146-136-5	Sequence 5, Appl
12	57	100.0	11	9 US-09-765-527-155	Sequence 155, App
13	57	100.0	11	9 US-09-765-527-208	Sequence 208, App
14	57	100.0	11	9 US-09-881-490-122	Sequence 122, App
15	57	100.0	11	9 US-09-881-490-183	Sequence 183, App

16	57	100.0	12	9 US-09-765-527-152	Sequence 152, App
17	57	100.0	12	9 US-09-881-490-119	Sequence 119, App
18	57	100.0	13	9 US-09-765-527-150	Sequence 150, App
19	57	100.0	13	9 US-09-881-490-117	Sequence 117, App
20	57	100.0	14	9 US-09-765-527-86	Sequence 86, Appl
21	57	100.0	14	9 US-09-881-490-31	Sequence 31, Appl
22	53	93.0	14	9 US-09-765-527-88	Sequence 88, Appl
23	53	93.0	14	9 US-09-881-490-32	Sequence 32, Appl
24	52	91.2	9	9 US-09-765-527-163	Sequence 163, App
25	52	91.2	9	9 US-09-765-527-164	Sequence 164, App
26	52	91.2	9	9 US-09-881-490-130	Sequence 130, App
27	52	91.2	9	9 US-09-881-490-131	Sequence 131, App
28	52	91.2	10	9 US-09-765-527-158	Sequence 158, App
29	52	91.2	10	9 US-09-765-527-209	Sequence 209, App
30	52	91.2	10	9 US-09-765-527-210	Sequence 210, App
31	52	91.2	10	9 US-09-765-527-211	Sequence 211, App
32	52	91.2	10	9 US-09-765-527-212	Sequence 212, App
33	52	91.2	10	9 US-09-765-527-213	Sequence 213, App
34	52	91.2	10	9 US-09-765-527-227	Sequence 227, App
35	52	91.2	10	9 US-09-881-490-125	Sequence 125, App
36	52	91.2	10	9 US-09-881-490-184	Sequence 184, App
37	52	91.2	10	9 US-09-881-490-185	Sequence 185, App
38	52	91.2	10	9 US-09-881-490-186	Sequence 186, App
39	52	91.2	10	9 US-09-881-490-187	Sequence 187, App
40	52	91.2	10	9 US-09-881-490-188	Sequence 188, App
41	52	91.2	10	9 US-09-881-490-190	Sequence 190, App
42	52	91.2	11	9 US-09-765-527-154	Sequence 154, App
43	52	91.2	11	9 US-09-765-527-225	Sequence 225, App
44	52	91.2	11	9 US-09-765-527-228	Sequence 228, App
45	52	91.2	11	9 US-09-765-527-229	Sequence 229, App
46	52	91.2	11	9 US-09-881-490-121	Sequence 121, App
47	52	91.2	11	9 US-09-881-490-189	Sequence 189, App
48	52	91.2	12	9 US-09-765-527-151	Sequence 151, App
49	52	91.2	12	9 US-09-765-527-230	Sequence 230, App
50	52	91.2	12	9 US-09-765-527-231	Sequence 231, App
51	52	91.2	12	9 US-09-760-397-3	Sequence 3, Appl
52	52	91.2	12	9 US-09-881-490-118	Sequence 118, App
53	52	91.2	15	US-10-146-136-4	Sequence 4, Appl
54	52	91.2	13	9 US-09-765-527-12	Sequence 12, Appl
55	52	91.2	13	9 US-09-881-490-2	Sequence 2, Appl
56	52	91.2	14	9 US-09-765-527-14	Sequence 14, Appl
57	52	91.2	14	9 US-09-765-527-32	Sequence 32, Appl
58	52	91.2	14	9 US-09-765-527-33	Sequence 33, Appl
59	52	91.2	14	9 US-09-765-527-34	Sequence 34, Appl
60	52	91.2	14	9 US-09-765-527-35	Sequence 35, Appl
61	52	91.2	14	9 US-09-765-527-36	Sequence 36, Appl
62	52	91.2	14	9 US-09-765-527-77	Sequence 77, Appl
63	52	91.2	14	9 US-09-765-527-84	Sequence 84, Appl
64	52	91.2	14	9 US-09-765-527-102	Sequence 102, App
65	52	91.2	14	9 US-09-765-527-136	Sequence 136, App

ALIGNMENTS

RESULT 1

US-09-765-527-159
: Sequence 159, Application US/09765527
: Patent No. US2002000638A1
: GENERAL INFORMATION:
: APPLICANT: Better, Marc D.
: TITLE OF INVENTION: Methods for Recombinant Microbial Production of
: Fusion Proteins and BPI-Derived Peptides
: NUMBER OF SEQUENCES: 265
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
: STREET: 6300 Sears Tower, 233 South Wacker Drive
: CITY: Chicago
: STATE: Illinois
: COUNTRY: United States of America
: ZIP: 60606-6402
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk

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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
  APPLICATION NUMBER: US/09/765,527
  FILING DATE: 18-Jan-2001
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: 08/621,803
  FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
  NAME: Borun, Michael F.
  REGISTRATION NUMBER: 25,447
REFERENCE/DOCKET NUMBER: 27129/53199
TELECOMMUNICATION INFORMATION:
  TELEPHONE: 312/474-6300
  TELEFAX: 312/474-0448
  TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 159:
  SEQUENCE CHARACTERISTICS:
    LENGTH: 10 amino acids
    TYPE: amino acid
    TOPOLOGY: linear
  MOLECULE TYPE: peptide
  FEATURE:
    NAME/KEY: misc_feature
    OTHER INFORMATION: *XMP.293*
  NAME/KEY: Modified-site
  LOCATION: C-Terminus
  OTHER INFORMATION: /label= Amidation
    /note= "The C-Terminus is Amidated."
US-09-765-527-159
  Query Match 100.0%; Score 57; DB 9; Length 10;
  Best Local Similarity 100.0%; Pred. No. 0.0021;
  Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KWLQLFHKK 10
Db 1 KWLQLFHKK 10

RESULT 2
US-09-765-527-215
  Sequence 215, Application US/09765527
  Patent No. US20020006638A1
  GENERAL INFORMATION:
    APPLICANT: Better, Marc D.
    TITLE OF INVENTION: Methods for Recombinant Microbial Production of:
      Fusion Proteins and BPI-Derived Peptides
    NUMBER OF SEQUENCES: 265
    CORRESPONDENCE ADDRESS:
      ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
      STREET: 6300 Sears Tower, 233 South Wacker Drive
      CITY: Chicago
      STATE: Illinois
      COUNTRY: United States of America
      ZIP: 60606-6402
    COMPUTER READABLE FORM:
      MEDIUM TYPE: Floppy disk
      COMPUTER: IBM PC compatible
      OPERATING SYSTEM: PC-DOS/MS-DOS
      SOFTWARE: PatentIn Release #1.0, Version #1.25
    CURRENT APPLICATION DATA:
      APPLICATION NUMBER: US/09/765,527
      FILING DATE: 18-Jan-2001
    PRIOR APPLICATION DATA:
      APPLICATION NUMBER: 08/621,803
      FILING DATE: <Unknown>
    ATTORNEY/AGENT INFORMATION:
      NAME: Borun, Michael F.
      REGISTRATION NUMBER: 25,447
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REFERENCE/DOCKET NUMBER: 27129/33199
TELECOMMUNICATION INFORMATION:
  TELEPHONE: 312/474-6300
  TELEFAX: 312/474-0448
  TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 215:
  SEQUENCE CHARACTERISTICS:
    LENGTH: 10 amino acids
    TYPE: amino acid
    TOPOLOGY: linear
  MOLECULE TYPE: peptide
  FEATURE:
    NAME/KEY: misc_feature
    OTHER INFORMATION: *XMP.373*
  NAME/KEY: Modified-site
  LOCATION: C-Terminus
  OTHER INFORMATION: /label= Acetylated
    /note= "Position 1 is acetylated."
  NAME/KEY: Modified-site
  LOCATION: C-Terminus
  OTHER INFORMATION: /label= Amidation
    /note= "The C-Terminus is Amidated."
US-09-765-527-215
  Query Match 100.0%; Score 57; DB 9; Length 10;
  Best Local Similarity 100.0%; Pred. No. 0.0021;
  Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KWLQLFHKK 10
Db 1 KWLQLFHKK 10

RESULT 3
US-09-881-490-126
  Sequence 126, Application US/09881490
  Patent No. US2002007298A1
  GENERAL INFORMATION:
    APPLICANT: Little II, Roger G.
      Lim, Edward
      Fadem, Mitchell B.
    TITLE OF INVENTION: Anti-Fungal Peptides
    NUMBER OF SEQUENCES: 21;
    CORRESPONDENCE ADDRESS:
      ADDRESSEE: McAndrews, Held & Malloy, Ltd.
      STREET: 500 West Madison Street, 34th Floor Drive
      CITY: Chicago
      STATE: Illinois
      COUNTRY: United States of America
      ZIP: 60661
    COMPUTER READABLE FORM:
      MEDIUM TYPE: Floppy disk
      COMPUTER: IBM PC compatible
      OPERATING SYSTEM: PC-DOS/MS-DOS
      SOFTWARE: PatentIn Release #1.0, Version #1.25
    CURRENT APPLICATION DATA:
      APPLICATION NUMBER: US/09/881,490
      FILING DATE: 14-Jun-2001
    PRIOR APPLICATION DATA:
      APPLICATION NUMBER: 09/119,858
      FILING DATE: <Unknown>
      APPLICATION NUMBER: 08/372,105
      FILING DATE: 13-JAN-95
      APPLICATION NUMBER: 08/306,473
      FILING DATE: 15-SEP-94
      APPLICATION NUMBER: 08/273,540
      FILING DATE: 11-JUL-94
      APPLICATION NUMBER: 08/209,762
      FILING DATE: 11-MAR-94
      APPLICATION NUMBER: 08/183,222
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: FILING DATE: 14-JAN-94
: APPLICATION NUMBER: 08/093,202
: FILING DATE: 15-JUL-93
: APPLICATION NUMBER: 08/030,644
: FILING DATE: 12-MAR-93
: ATTORNEY/AGENT INFORMATION:
: NAME: McNicholas, Janet M.
: REGISTRATION NUMBER: 32,918
: REFERENCE/DOCKET NUMBER: 100-238/11021US01
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 312/707-8889
: TELEFAX: 312/707-9155
: TELEX: 650 388-1248
: INFORMATION FOR SEQ ID NO: 126:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 10 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: peptide
: FEATURE:
: NAME/KEY: misc_feature
: OTHER INFORMATION: "XMP.293"
: FEATURE:
: NAME/KEY: Modified-site
: LOCATION: C-Terminus
: OTHER INFORMATION: /label= Amidation
: /note= "The C-Terminus is Amidated"
: SEQUENCE DESCRIPTION: SEQ ID NO: 126:
US-09-881-490-126

Query Match 100.0%; Score 57; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0021;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KWLQLFHKK 10
Db 1 KWLQLFHKK 10

RESULT 4
US-09-881-490-194
: Sequence 194, Application US/09881490
: Patent No. US2002007298A1
: GENERAL INFORMATION:
: APPLICANT: Little II, Roger G.
: Lim, Edward
: Fadem, Mitchell B.
: TITLE OF INVENTION: Anti-Fungal Peptides
: NUMBER OF SEQUENCES: 211
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: McAndrews, Held & Malloy, Ltd.
: STREET: 500 West Madison Street, 34th FloorDrive
: CITY: Chicago
: STATE: Illinois
: COUNTRY: United States of America
: ZIP: 60661
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/881,490
: FILING DATE: 14-Jun-2001
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 09/119,858
: FILING DATE: <Unknown>
: APPLICATION NUMBER: 09/372,105
: FILING DATE: 13-JAN-95
: APPLICATION NUMBER: 08/306,473
: FILING DATE: 15-SEP-94
: APPLICATION NUMBER: 08/273,540
: FILING DATE: 11-JUL-94

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: APPLICATION NUMBER: 08/209,762
: FILING DATE: 11-MAR-94
: APPLICATION NUMBER: 08/183,222
: FILING DATE: 14-JAN-94
: APPLICATION NUMBER: 08/093,202
: FILING DATE: 15-JUL-93
: APPLICATION NUMBER: 08/030,644
: FILING DATE: 12-MAR-93
: ATTORNEY/AGENT INFORMATION:
: NAME: McNicholas, Janet M.
: REGISTRATION NUMBER: 32,918
: REFERENCE/DOCKET NUMBER: 100-238/11021US01
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 312/707-8889
: TELEFAX: 312/707-9155
: TELEX: 650 388-1248
: INFORMATION FOR SEQ ID NO: 194:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 10 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: peptide
: FEATURE:
: NAME/KEY: misc_feature
: OTHER INFORMATION: "XMP.363"
: FEATURE:
: NAME/KEY: Modified-site
: LOCATION: 1, 9 & 10
: OTHER INFORMATION: /label= D-Tys
: /note= "Positions 1, 9 & 10 are D-lysine."
: FEATURE:
: NAME/KEY: Modified-site
: LOCATION: 2
: OTHER INFORMATION: /label= D-Trp
: /note= "Position 2 is D-tryptophan."
: FEATURE:
: NAME/KEY: Modified-site
: LOCATION: C-Terminus
: OTHER INFORMATION: /label= Amidation
: /note= "The C-Terminus is Amidated"
: SEQUENCE DESCRIPTION: SEQ ID NO: 194:
US-09-881-490-194

Query Match 100.0%; Score 57; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0021;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KWLQLFHKK 10
Db 1 KWLQLFHKK 10

RESULT 5
US-09-881-490-195
: Sequence 195, Application US/09881490
: Patent No. US2002007298A1
: GENERAL INFORMATION:
: APPLICANT: Little II, Roger G.
: Lim, Edward
: Fadem, Mitchell B.
: TITLE OF INVENTION: Anti-Fungal Peptides
: NUMBER OF SEQUENCES: 211
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: McAndrews, Held & Malloy, Ltd.
: STREET: 500 West Madison Street, 34th FloorDrive
: CITY: Chicago
: STATE: Illinois
: COUNTRY: United States of America
: ZIP: 60661
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS

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SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/881,490
FILING DATE: 14-Jun-2001
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/119,858
FILING DATE: <Unknown>
APPLICATION NUMBER: 08/372,105
FILING DATE: 13-JAN-95
APPLICATION NUMBER: 08/306,473
FILING DATE: 15-SEP-94
APPLICATION NUMBER: 08/273,540
FILING DATE: 11-JUL-94
APPLICATION NUMBER: 08/209,762
FILING DATE: 11-MAR-94
APPLICATION NUMBER: 08/183,222
FILING DATE: 14-JAN-94
APPLICATION NUMBER: 08/093,202
FILING DATE: 15-JUL-93
APPLICATION NUMBER: 08/030,644
FILING DATE: 12-MAR-93
ATTORNEY/AGENT INFORMATION:
NAME: McNicholas, Janet M.
REGISTRATION NUMBER: 32,918
REFERENCE/DOCKET NUMBER: 100-238/11021US01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312/707-8889
TELEFAX: 312/707-9155
TELEX: 650 388-1248
INFORMATION FOR SEQ ID NO: 195:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: misc_feature
OTHER INFORMATION: "XMP.364"
FEATURE:
NAME/KEY: Modified-site
LOCATION: 1
OTHER INFORMATION: /label= Acetylated
/note= "Position 1 is acetylated"
FEATURE:
NAME/KEY: Modified-site
LOCATION: 1, 9 & 10
OTHER INFORMATION: /label= D-lys
/note= "Positions 1, 9 & 10 are D-lysine."
FEATURE:
NAME/KEY: Modified-site
LOCATION: 2
OTHER INFORMATION: /label= D-Trp
/note= "Position 2 is D-tryptophan."
FEATURE:
NAME/KEY: Modified-site
LOCATION: C-Terminus
OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"
SEQUENCE DESCRIPTION: SEQ ID NO: 195:
US-09-881-490-195
150.0%; Score 57; DB 9; Length 10;
Query Match
Best Local Similarity 100.0%; Pred. No. 0.0021;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 KWLQLFHKK 10
DB 1 KWLQLFHKK 10
RESULT 6
US-09-881-490-196
; Sequence 196, Application US/09881430

Patent No. US20020077298A1
GENERAL INFORMATION:
APPLICANT: Little J., Roger G.
Lim, Edward
Fadem, Mitchell B.
TITLE OF INVENTION: Anti-Fungal Peptides
NUMBER OF SEQUENCES: 211
CORRESPONDENCE ADDRESS:
ADDRESSEE: McAndrews, Held & Malloy, Ltd.
STREET: 500 West Madison Street, 34th Floor Drive
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60661
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/881,490
FILING DATE: 14-Jun-2001
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/119,858
FILING DATE: <Unknown>
APPLICATION NUMBER: 08/372,105
FILING DATE: 13-JAN-95
APPLICATION NUMBER: 08/306,473
FILING DATE: 15-SEP-94
APPLICATION NUMBER: 08/273,540
FILING DATE: 11-JUL-94
APPLICATION NUMBER: 08/209,762
FILING DATE: 11-MAR-94
APPLICATION NUMBER: 08/183,222
FILING DATE: 14-JAN-94
APPLICATION NUMBER: 08/093,202
FILING DATE: 15-JUL-93
APPLICATION NUMBER: 08/030,644
FILING DATE: 12-MAR-93
ATTORNEY/AGENT INFORMATION:
NAME: McNicholas, Janet M.
REGISTRATION NUMBER: 32,918
REFERENCE/DOCKET NUMBER: 100-238/11021US01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312/707-8889
TELEFAX: 312/707-9155
TELEX: 650 388-1248
INFORMATION FOR SEQ ID NO: 196:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: misc_feature
OTHER INFORMATION: "XMP.365"
FEATURE:
NAME/KEY: Modified-site
LOCATION: 1-10
OTHER INFORMATION: /label= D-Amino Acids
/note= "Positions 1-10 are D-amino acids"
FEATURE:
NAME/KEY: Modified-site
LOCATION: C-Terminus
OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated"
SEQUENCE DESCRIPTION: SEQ ID NO: 196:
US-09-881-490-196
100.0%; Score 57; DB 9; Length 10;
Query Match
Best Local Similarity 100.0%; Pred. No. 0.0021;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;


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QY      1 KWLQLFHKK 10
DB      1 KWLQLFHKK 10

RESULT 7
US-09-881-490-197
: Sequence 197, Application US/09881490
: Patent No. US20020077298A1
: GENERAL INFORMATION:
: APPLICANT: Little II, Roger G.
:           Lim, Edward
:           Fadem, Mitchell B.
: TITLE OF INVENTION: Anti-Fungal Peptides
: NUMBER OF SEQUENCES: 211
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: McAndrews, Held & Malloy, Ltd.
: STREET: 500 West Madison Street, 34th FloorDrive
: CITY: Chicago
: STATE: Illinois
: COUNTRY: United States of America
: ZIP: 60661
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/881,490
: FILING DATE: 14-Jun-2001
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 09/119,858
: FILING DATE: <Unknown>
: APPLICATION NUMBER: 08/372,105
: FILING DATE: 13-JAN-95
: APPLICATION NUMBER: 08/306,473
: FILING DATE: 15-SEP-94
: APPLICATION NUMBER: 08/273,540
: FILING DATE: 11-JUL-94
: APPLICATION NUMBER: 08/209,762
: FILING DATE: 11-MAR-94
: APPLICATION NUMBER: 08/183,222
: FILING DATE: 14-JAN-94
: APPLICATION NUMBER: 08/093,202
: FILING DATE: 15-JUL-93
: APPLICATION NUMBER: 08/030,644
: FILING DATE: 12-MAR-93
: ATTORNEY/AGENT INFORMATION:
: NAME: McNicholas, Janet M.
: REGISTRATION NUMBER: 32,918
: REFERENCE/DOCKET NUMBER: 100-238/11021US01
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 312/707-8889
: TELEFAX: 312/707-9155
: TELEX: 650 388-1248
: INFORMATION FOR SEQ ID NO: 197:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 10 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: peptide
: FEATURE:
: NAME/KEY: misc.feature
: OTHER INFORMATION: "XMP.366"
: FEATURE:
: NAME/KEY: Modified-site
: LOCATION: 1
: OTHER INFORMATION: /label= Acetylated
: /note= "Position 1 is acetylated"
: FEATURE:
: NAME/KEY: Modified-site
: LOCATION: 1-10
: OTHER INFORMATION: /label= D-Amino Acids

: /note= "Positions 1-10 are D-amino acids"
: FEATURE:
: NAME/KEY: Modified-site
: LOCATION: C-Terminus
: OTHER INFORMATION: /label= Amidation
: /note= "The C-terminus is Amidated"
: SEQUENCE DESCRIPTION: SEQ ID NO: 197:
US-09-881-490-197
Query Match      100.0%; Score 57; DR 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0021;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KWLQLFHKK 10
DB      1 KWLQLFHKK 10

RESULT 8
US-09-881-490-204
: Sequence 204, Application US/09881490
: Patent No. US20020077298A1
: GENERAL INFORMATION:
: APPLICANT: Little II, Roger G.
:           Lim, Edward
:           Fadem, Mitchell B.
: TITLE OF INVENTION: Anti-Fungal Peptides
: NUMBER OF SEQUENCES: 211
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: McAndrews, Held & Malloy, Ltd.
: STREET: 500 West Madison Street, 34th FloorDrive
: CITY: Chicago
: STATE: Illinois
: COUNTRY: United States of America
: ZIP: 60661
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/881,490
: FILING DATE: 14-Jun-2001
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 09/119,858
: FILING DATE: <Unknown>
: APPLICATION NUMBER: 08/372,105
: FILING DATE: 13-JAN-95
: APPLICATION NUMBER: 08/306,473
: FILING DATE: 15-SEP-94
: APPLICATION NUMBER: 08/273,540
: FILING DATE: 11-JUL-94
: APPLICATION NUMBER: 08/209,762
: FILING DATE: 11-MAR-94
: APPLICATION NUMBER: 08/183,222
: FILING DATE: 14-JAN-94
: APPLICATION NUMBER: 08/093,202
: FILING DATE: 15-JUL-93
: APPLICATION NUMBER: 08/030,644
: FILING DATE: 12-MAR-93
: ATTORNEY/AGENT INFORMATION:
: NAME: McNicholas, Janet M.
: REGISTRATION NUMBER: 32,918
: REFERENCE/DOCKET NUMBER: 100-238/11021US01
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 312/707-8889
: TELEFAX: 312/707-9155
: TELEX: 650 388-1248
: INFORMATION FOR SEQ ID NO: 204:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 10 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
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```

; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: misc.feature
; OTHER INFORMATION: "XMP.373"
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: 1
; OTHER INFORMATION: /label="Acetylated"
; /note="Position 1 is acetylated"
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: C-Terminus
; OTHER INFORMATION: /label= Amidation
; /note="The C-Terminus is Amidated"
; SEQUENCE DESCRIPTION: SEQ ID NO: 204:
US-09-881-490-204

```

```

Query Match      100.0%; Score 57; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0021;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 KWLQLFHHK 10
DB 1 KWLQLFHHK 10

```

```

RESULT 9
US-10-006-557-11
; Sequence 11, Application US/10005557
; Publication No. US20020173464A1
; GENERAL INFORMATION:
; APPLICANT: King, George L.
; APPLICANT: Abrahamson, Susan
; APPLICANT: Pugsley, Michael
; TITLE OF INVENTION: Modulation of Pericyte Proliferation
; FILE REFERENCE: 27129/36739A
; CURRENT APPLICATION NUMBER: US/10/006,557
; CURRENT FILING DATE: 2001-12-03
; PRIOR APPLICATION NUMBER: 60/250,542
; PRIOR FILING DATE: 2000-12-01
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MISC FEATURE
; OTHER INFORMATION: XMP.365
; NAME/KEY: SITE
; LOCATION: (1)..(10)
; OTHER INFORMATION: Positions 1-10 are D-amino acids
; NAME/KEY: SITE
; LOCATION: (10)..(10)
; OTHER INFORMATION: AMIDATION-The C-Terminus is Amidated
US-10-006-557-11

```

```

Query Match      100.0%; Score 57; DB 14; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0021;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 KWLQLFHHK 10
DB 1 KWLQLFHHK 10

```

```

RESULT 10
US-10-146-136-3
; Sequence 3, Application US/10146136
; Publication No. US20030114485A1
; GENERAL INFORMATION:
; APPLICANT: Little, II, Roger G.
; TITLE OF INVENTION: IDENTIFICATION OF NOVEL ANTIMICROBIAL AGENTS USING

```

```

; TITLE OF INVENTION: METABOLIC OXIDATION-REDUCTION INDICATOR DYES
; FILE REFERENCE: 27129/36226
; CURRENT APPLICATION NUMBER: US/10/146,136
; CURRENT FILING DATE: 2002-05-16
; PRIOR APPLICATION NUMBER: 60/143,290
; PRIOR FILING DATE: 1999-07-12
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: artificial
; OTHER INFORMATION: peptide XMP.365
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1)..(10)
; OTHER INFORMATION: Positions 1-10 are D-amino acids
; FEATURE:
; OTHER INFORMATION: The C-Terminus is Amidated
US-10-146-136-3

```

```

Query Match      100.0%; Score 57; DB 15; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0021;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 KWLQLFHHK 10
DB 1 KWLQLFHHK 10

```

```

RESULT 11
US-10-146-136-5
; Sequence 5, Application US/10146136
; Publication No. US20030114485A1
; GENERAL INFORMATION:
; APPLICANT: Little, II, Roger G.
; TITLE OF INVENTION: IDENTIFICATION OF NOVEL ANTIMICROBIAL AGENTS USING
; FILE REFERENCE: 27129/36226
; CURRENT APPLICATION NUMBER: US/10/146,136
; CURRENT FILING DATE: 2002-05-16
; PRIOR APPLICATION NUMBER: 60/143,290
; PRIOR FILING DATE: 1999-07-12
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: artificial
; OTHER INFORMATION: peptide XMP.416
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1)..(10)
; OTHER INFORMATION: Positions 1-10 are D-amino acids
; FEATURE:
; OTHER INFORMATION: The C-Terminus is Amidated
; FEATURE:
; OTHER INFORMATION: 8-amino-octanoyl group; NH2-(CH2)7-CO at N-Terminus
US-10-146-136-5

```

```

Query Match      100.0%; Score 57; DB 15; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0021;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 KWLQLFHHK 10
DB 1 KWLQLFHHK 10

```

RESULT 12

US-09-765-527-155
: Sequence 155, Application: US/09765527
: Patent No. US20020006638A1
: GENERAL INFORMATION:
: APPLICANT: Better, Marc D.
: TITLE OF INVENTION: Methods for Recombinant Microbial Production of
: Fusion Proteins and BPI-Derived Peptides
: NUMBER OF SEQUENCES: 265
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
: STREET: 6300 Sears tower, 233 South Wacker Drive
: CITY: Chicago
: STATE: Illinois
: COUNTRY: United States of America
: ZIP: 60606-6402
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/765,527
: FILING DATE: 18-Jan-2001
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/621,803
: FILING DATE: <Unknown>
: ATTORNEY/AGENT INFORMATION:
: NAME: Borun, Michael F.
: REGISTRATION NUMBER: 25,447
: REFERENCE/DOCKET NUMBER: 27129/33199
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 312/474-6300
: TELEFAX: 312/474-0448
: TELEX: 25-3856
: INFORMATION FOR SEQ ID NO: 155:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 11 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: peptide
: FEATURE:
: NAME/KEY: misc_feature
: OTHER INFORMATION: "XMP.265"
: FEATURE:
: NAME/KEY: Modified-site
: LOCATION: C-Terminus
: OTHER INFORMATION: /label= Amidation
: /note= "The C-Terminus is Amidated."
: SEQUENCE DESCRIPTION: SEQ ID NO: 155:
US-09-765-527-155

Query Match 100.0%; Score 57; DB 9; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.0023;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
DB 2 KWLQLFHKK 11

RESULT 13

US-09-765-527-208
: Sequence 208, Application: US/09765527
: Patent No. US20020006638A1
: GENERAL INFORMATION:
: APPLICANT: Better, Marc D.
: TITLE OF INVENTION: Methods for Recombinant Microbial Production of
: Fusion Proteins and BPI-Derived Peptides
: NUMBER OF SEQUENCES: 265
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
: STREET: 6300 Sears tower, 233 South Wacker Drive
: CITY: Chicago
: STATE: Illinois
: COUNTRY: United States of America
: ZIP: 60661
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/881,490

CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/765,527
FILING DATE: 18-Jan-2001
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/621,803
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Borun, Michael F.
REGISTRATION NUMBER: 25,447
REFERENCE/DOCKET NUMBER: 27129/33199
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312/474-6300
TELEFAX: 312/474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 208:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: misc_feature
OTHER INFORMATION: "XMP.352"
FEATURE:
NAME/KEY: Modified-site
LOCATION: C-Terminus
OTHER INFORMATION: /label= Amidation
/note= "The C-Terminus is Amidated."
SEQUENCE DESCRIPTION: SEQ ID NO: 208:
US-09-765-527-208

Query Match 100.0%; Score 57; DB 9; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.0024;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KWLQLFHKK 10
DB 2 KWLQLFHKK 11

RESULT 14

US-09-881-490-122
: Sequence 122, Application: US/09881490
: Patent No. US2002007298A1
: GENERAL INFORMATION:
: APPLICANT: Little II, Roger G.
: Lim, Edward
: Fadem, Mitchell B.
: TITLE OF INVENTION: Anti-Fungal Peptides
: NUMBER OF SEQUENCES: 211
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: McAndrews, Held & Malloy, Ltd.
: STREET: 500 West Madison Street, 34th Floor Drive
: CITY: Chicago
: STATE: Illinois
: COUNTRY: United States of America
: ZIP: 60661
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/881,490

1 FILING DATE: 14-JUN-2001
2 PRIOR APPLICATION DATA:
3 APPLICATION NUMBER: 09/119,858
4 FILING DATE: <Unknown>
5 APPLICATION NUMBER: 08/372,105
6 FILING DATE: 13-JAN-95
7 APPLICATION NUMBER: 08/306,473
8 FILING DATE: 15-SEP-94
9 APPLICATION NUMBER: 08/273,540
10 FILING DATE: 11-JUL-94
11 APPLICATION NUMBER: 08/209,762
12 FILING DATE: 11-MAR-94
13 APPLICATION NUMBER: 08/093,202
14 FILING DATE: 15-JUL-93
15 APPLICATION NUMBER: 08/030,644
16 FILING DATE: 12-MAR-93
17 ATTORNEY/AGENT INFORMATION:
18 NAME: McNicholas, Janet M.
19 REGISTRATION NUMBER: 32,918
20 REFERENCE/DOCKET NUMBER: 100-238/11021US01
21 TELEPHONE: 312/707-8889
22 TELEFAX: 312/707-9155
23 TELEFAX: 650 388-1248
24 INFORMATION FOR SEQ ID NO: 122:
25 SEQUENCE CHARACTERISTICS:
26 LENGTH: 11 amino acids
27 TYPE: amino acid
28 TOPOLOGY: linear
29 MOLECULE TYPE: peptide
30 FEATURE:
31 NAME/KEY: misc_feature
32 OTHER INFORMATION: "XMP.289"
33
34 NAME/KEY: Modified-site
35 LOCATION: C-terminus
36 OTHER INFORMATION: /label= Amidation
37 /note= "The C-Terminus is Amidated"
38 SEQUENCE DESCRIPTION: SEQ ID NO: 122:
39
40 US-09-881-490-122
41
42 Query Match 100.0%; Score 57; DB 9; Length 11;
43 Best Local Similarity 100.0%; Pred. No. 0.0023;
44 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
45
46 QY 1 KWLQLFHHK 10
47 DB 2 KWLQLFHHK 11
48
49 RESULT 15
50 US-09-881-490-183
51 Sequence 183, Application: US/09881490
52 Patent No. US2002007298A1
53 GENERAL INFORMATION:
54 APPLICANT: Little II, Roger G.
55 Jim. Edward
56 Fadem, Mitchell B.
57 TITLE OF INVENTION: Anti-Fungal Peptides
58 NUMBER OF SEQUENCES: 211
59 CORRESPONDENCE ADDRESS:
60 ADDRESSEE: McAndrews, Held & Malloy, Ltd.
61 STREET: 500 West Madison Street, 34th Floor/Drive
62 CITY: Chicago
63 STATE: Illinois
64 COUNTRY: United States of America
65 ZIP: 60661
66 COMPUTER READABLE FORM:
67 MEDIUM TYPE: Floppy disk
68 COMPUTER: IBM PC compatible
69 OPERATING SYSTEM: PC-DOS/MS-DOS

1 SOFTWARE: PatentIn Release #1.0, Version #1.25
2 CURRENT APPLICATION DATA:
3 APPLICATION NUMBER: US/09/881,490
4 FILING DATE: 14-JUN-2001
5 PRIOR APPLICATION DATA:
6 APPLICATION NUMBER: 09/119,858
7 FILING DATE: <Unknown>
8 APPLICATION NUMBER: 08/372,105
9 FILING DATE: 13-JAN-95
10 APPLICATION NUMBER: 08/306,473
11 FILING DATE: 15-SEP-94
12 APPLICATION NUMBER: 08/273,540
13 FILING DATE: 11-JUL-94
14 APPLICATION NUMBER: 08/209,762
15 FILING DATE: 11-MAR-94
16 APPLICATION NUMBER: 08/183,222
17 FILING DATE: 14-JAN-94
18 APPLICATION NUMBER: 08/093,202
19 FILING DATE: 15-JUL-93
20 APPLICATION NUMBER: 08/030,644
21 FILING DATE: 12-MAR-93
22 ATTORNEY/AGENT INFORMATION:
23 NAME: McNicholas, Janet M.
24 REGISTRATION NUMBER: 32,918
25 REFERENCE/DOCKET NUMBER: 100-238/11021US01
26 TELECOMMUNICATION INFORMATION:
27 TELEPHONE: 312/707-8889
28 TELEFAX: 312/707-9155
29 TELEFAX: 650 388-1248
30 INFORMATION FOR SEQ ID NO: 183:
31 SEQUENCE CHARACTERISTICS:
32 LENGTH: 11 amino acids
33 TYPE: amino acid
34 TOPOLOGY: linear
35 MOLECULE TYPE: peptide
36 FEATURE:
37 NAME/KEY: misc_feature
38 OTHER INFORMATION: "XMP.352"
39
40 NAME/KEY: Modified-site
41 LOCATION: C-terminus
42 OTHER INFORMATION: /label= Amidation
43 /note= "The C-Terminus is Amidated"
44 SEQUENCE DESCRIPTION: SEQ ID NO: 183:
45
46 US-09-881-490-183
47
48 Query Match 100.0%; Score 57; DB 9; Length 11;
49 Best Local Similarity 100.0%; Pred. No. 0.0023;
50 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
51
52 QY 1 KWLQLFHHK 10
53 DB 2 KWLQLFHHK 11
54
55 RESULT 16
56 US-09-881-527-152
57 Sequence 152, Application US/09765527
58 Patent No. US20020006638A1
59 GENERAL INFORMATION:
60 APPLICANT: Better, Marc D.
61 TITLE OF INVENTION: Fusion Proteins and BPI-Derived Peptides
62 NUMBER OF SEQUENCES: 265
63 CORRESPONDENCE ADDRESS:
64 ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
65 STREET: 6300 Sears Tower, 233 South Wacker Drive
66 CITY: Chicago
67 STATE: Illinois
68 COUNTRY: United States of America
69 ZIP: 60606-6402
70 COMPUTER READABLE FORM:
71 MEDIUM TYPE: Floppy disk

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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
  APPLICATION NUMBER: US/09/765,527
  FILING DATE: 18-Jan-2001
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: 08/621,803
  FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
  NAME: Borun, Michael F.
  REGISTRATION NUMBER: 25,447
  REFERENCE/DOCKET NUMBER: 27129/33199
TELECOMMUNICATION INFORMATION:
  TELEPHONE: 312/474-6300
  TELEFAX: 312/474-0448
  TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 152:
SEQUENCE CHARACTERISTICS:
  LENGTH: 12 amino acids
  TYPE: amino acid
  TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
  NAME/KEY: misc_feature
  OTHER INFORMATION: "XMP.236"
  NAME/KEY: Modified-site
  LOCATION: C-Terminus
  OTHER INFORMATION: /label= Amidation
  /note= "The C-terminus is Amidated."
SEQUENCE DESCRIPTION: SEQ ID NO: 152:
US-09-765-527-152

Query Match      100.0%; Score 57; DB 9; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.0025;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KWLQLFHKK 10
        |||.....|
Db       3 KWLQLFHKK 12

RESULT 17
US-09-881-490-119
Sequence 119, Application US/09/881490
Patent No. US2002007238A1
GENERAL INFORMATION:
  APPLICANT: Little II, Roger G.
    Lim, Edward
    Padem, Mitchell B.
  TITLE OF INVENTION: Anti-Fungal Peptidus
  NUMBER OF SEQUENCES: 211
  CORRESPONDENCE ADDRESS:
    ADDRESSEE: McAndrews, Held & Malloy, Ltd.
    CITY: Chicago
    STATE: Illinois
    COUNTRY: United States of America
    ZIP: 60661
  COMPUTER READABLE FORM:
    MEDIUM TYPE: Floppy disk
    COMPUTER: IBM PC compatible
    OPERATING SYSTEM: PC-DOS/MS-DOS
    SOFTWARE: PatentIn Release #1.0, Version #1.25
  CURRENT APPLICATION DATA:
    APPLICATION NUMBER: US/09/881,490
    FILING DATE: 14-Jun-2001
  PRIOR APPLICATION DATA:
    APPLICATION NUMBER: 09/119,858
    FILING DATE: <Unknown>
    APPLICATION NUMBER: 08/372,105
    FILING DATE: 13-JAN-95
```

```
APPLICATION NUMBER: 08/306,473
FILING DATE: 15-SEP-94
APPLICATION NUMBER: 08/273,540
FILING DATE: 11-JUL-94
APPLICATION NUMBER: 08/209,762
FILING DATE: 11-MAR-94
APPLICATION NUMBER: 08/183,222
FILING DATE: 14-JAN-94
APPLICATION NUMBER: 08/093,202
FILING DATE: 15-JUL-93
APPLICATION NUMBER: 08/030,644
FILING DATE: 12-MAR-93
ATTORNEY/AGENT INFORMATION:
  NAME: McNicholas, Janet M.
  REGISTRATION NUMBER: 32,918
  REFERENCE/DOCKET NUMBER: 100-238/1102:US01
TELECOMMUNICATION INFORMATION:
  TELEPHONE: 312/707-8889
  TELEFAX: 312/707-9155
  TELEX: 650 388-1248
INFORMATION FOR SEQ ID NO: 119:
SEQUENCE CHARACTERISTICS:
  LENGTH: 12 amino acids
  TYPE: amino acid
  TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
  NAME/KEY: misc_feature
  OTHER INFORMATION: "XMP.286"
  NAME/KEY: Modified-site
  LOCATION: C-Terminus
  OTHER INFORMATION: /label= Amidation
  /note= "The C-terminus is Amidated."
SEQUENCE DESCRIPTION: SEQ ID NO: 119:
US-09-881-490-119

Query Match      100.0%; Score 57; DB 9; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.0025;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KWLQLFHKK 10
        |||.....|
Db       3 KWLQLFHKK 12

RESULT 18
US-09-765-527-150
Sequence 150, Application US/09765527
Patent No. US2002006638A1
GENERAL INFORMATION:
  APPLICANT: Better, Marc D.
  TITLE OF INVENTION: Methods for Recombinant Microbial Production of
  CORRESPONDENCE ADDRESS:
    ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
    STREET: 6300 Sears Tower, 233 South Wacker Drive
    CITY: Chicago
    STATE: Illinois
    COUNTRY: United States of America
    ZIP: 60606-6402
  COMPUTER READABLE FORM:
    MEDIUM TYPE: Floppy disk
    COMPUTER: IBM PC compatible
    OPERATING SYSTEM: PC-DOS/MS-DOS
    SOFTWARE: PatentIn Release #1.0, Version #1.25
  CURRENT APPLICATION DATA:
    APPLICATION NUMBER: US/09/765,527
    FILING DATE: 18-Jan-2001
  PRIOR APPLICATION DATA:
    APPLICATION NUMBER: 08/621,803
    FILING DATE: <Unknown>
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